UNITED NATIONS

SECRETARIAT

ST

GENERAL

ST/SG/AC.10/4/Add.4
17 January 1979

Original: ENGLISH

COMMITTEE OF EXPERTS ON THE TRANSPORT
OF DANGEROUS GOODS

REPORT OF THE COMMITTEE OF EXPERTS ON ITS TENTH SESSION
(4-13 December 1978)

Addendum 4

Annex II - Recommendations on multimodal tank transport - is reproduced below.

Annex II

RECOMMENDATIONS ON MULTIMODAL TANK TRANSPORT
(ST/SG/AC.10/1/Rev.1 - Chapter 12)

Amendments adopted by the Committee

GE.79-20144

12.1. Preamble

12.1.1. The provisions of these Recommendations apply to tank-containers intended for the carriage of dangerous substances, except for those of Class 7, by all modes of transport except air transport. They set out the requirements necessary for through carriage. Where a less stringent requirement can be applied to only one mode, that fact is indicated. In addition to the provisions of these Recommendations, and unless otherwise specified, the applicable requirements of the International Convention for Safe Containers (CSC) should be fulfilled by any multimodal tank-container which meets the definition of a "container" within the terms of that Convention.

12.1.2. Exceptionally, existing tanks and their service equipment not conforming strictly to the requirements set forth, but having acceptable alternatives, may be considered by the competent authority for approval. In addition, in order to take into account progress in science and technology, the use of alternative arrangements which offer at least equivalent safety in use in respect of compatibility with the properties of the substances carried and equivalent or superior resistance to impact, loading and fire, may be considered by the competent authority.

12.1.3. These provisions are generally presented in two parts. The first contains requirements applicable to tank-containers intended for the carriage of dangerous goods of all classes. The second comprises a list of dangerous goods showing the particular requirements which modify or supplement the requirements of Part I for each particular substance. The list of substances in Part II will be required to be brought up to date from time to time by the possible addition of new substances and in the light of technical progress.

12.1.4. The construction, equipment, testing, running and operation of multimodal tank-containers should be subject to acceptance by the competent authority of the country in which the tank-containers are approved. The general requirements of Part I should be incorporated in the provisions laid down by the national competent authorities.

12.1.5. These recommendations do not apply to road tank-vehicles, rail tank-wagons, non-metallic tanks or tanks intended for the carriage of liquids having a capacity of less than 450 litres.

12.2. Definitions

12.2.1. For the purposes of these provisions:

12.2.2. "Tank-container" means a tank having a capacity of 450 litres or more whose shell is fitted with items of service equipment and structural equipment necessary for the carriage of dangerous liquids. The tank-container should be capable of being carried by land or by sea and of being loaded and discharged without the need of removal of its structural equipment, should possess stabilizing members external to the shell, and should be capable of being lifted when full;

12.2.3. "Shell" means the tank proper, including openings and their closures;

12.2.4. "Service equipment of a shell" means filling and discharge, venting, safety, heating and heat-insulating devices and measuring instruments;

12.6.2. All tank-shell openings other than openings for pressure relief devices and inspection openings should be provided with manually operated stop-valves situated as near to the shell as is practicable.

12.6.3. A tank-container or each of its compartments should be provided with an opening large enough to enable the container or compartment to be inspected.

12.6.4. External fittings should be grouped together.

12.6.5. All tank connections should be clearly marked to indicate the function of each.

12.6.6. Stop valves with screwed spindles should close by clockwise rotation.

12.6.7. No moving parts such as covers, components of closures, etc. which are liable to come into frictional or corrosive contact with aluminium tank containers intended for the carriage of inflammable liquids having a flash-point of not more than 21°C should be made of unprotected corrodible steel.

12.6.8. All piping should be of suitable material. Welded pipe joints should be used wherever possible. Where copper tubing is permitted, joints should be brazed or have an equally strong metal union. The melting point of brazing material should be no lower than 538°C. Such joints should in any event be such as not to decrease the strength of the tubing, as may happen by the cutting of threads. Non-malleable metals should not be used in the construction of valves or accessories. The bursting strength of all piping and pipe fittings should be at least four times the strength at the maximum allowable working pressure of the tank and at least four times the strength at the pressure to which it may be subjected in service by the action of a pump or other device (except pressure relief valves), the action of which may subject portions of the piping to pressures greater than the tank maximum allowable working pressure. Suitable provisions should be made in every case to prevent damage to piping due to thermal expansion and contraction, jarring and vibration.

12.7. Bottom openings

12.7.1. Certain substances listed in Part II should not be carried in tank-containers with bottom openings (bottom discharge tank-containers).

12.7.2. Except as may otherwise be provided in the case of tanks intended for the carriage of certain crystallizable or highly viscous substances, every bottom discharge tank-container should be equipped with two serially mounted and mutually independent shut-off devices as follows:

12.7.2.1. An internal stop-valve, that is a stop-valve within the tank or within a welded flange or its suppension flange, or within a coupling which is an integral part of the tank, such that:

(a) The control devices are so designed as to prevent any unintended opening through impact or other inadvertent act;

(b) The valve may be operable from above or below;

(c) If possible the setting of the valve (open or closed) should be verified from the ground.

12.7.2.2. At the end of each discharge pipe

(a) A shutter valve or

(b) A bolted blank flange or

(c) A specially approved screw cap.

12.7.3. For certain substances which are required to comply with this paragraph, as indicated in Part II, bottom discharge tank-containers should be equipped with three serially connected and mutually independent shut-off devices as follows:

12.7.3.1. An internal stop-valve as detailed in paragraph 12.7.2. except that it should be possible to place the valve from an accessible position on the tank-container that is remote from the valve itself.

12.7.3.2. An external valve.

12.7.3.3. At the end of the discharge pipe

(a) A bolted blank flange or

(b) A specially approved screw-cap.

12.7.4. The internal shut-off device should continue to be effective in the event of damage to the external control device.

12.7.5. In order to avoid any loss of contents in the event of damage to the external discharge fittings (pipe stubbs, lateral shut-off devices), the internal stop-valve and its seating should be protected against the danger of being wrenched off by external stresses or should be so designed as to resist them. The filling and discharge devices (including flanges or threaded plugs) and protective caps (if any) should be capable of being secured against any unintended opening.

12.8. Safety relief

12.8.1. All tank-containers, except as provided in paragraph 12.8.2. below, should be closed and fitted with a pressure-relief device.

12.8.2. If the competent authority authorizes the use of a tank-container with no relief device, the tank-container should be approved only if the tank is capable of withstanding the developed vapour pressure of the contents after complete engulfment in fire for 30 minutes, with heat input as defined in paragraphs 12.13.2 and 12.13.3. below. The required additional strength may be provided by increasing the pressure used in the design calculations or by providing adequate fire resistant insulation.

12.9. Pressure-relief devices

12.9.1. Every tank shell of 1,900 litres or more, or every independent compartment of a tank shell of similar capacity, should be provided with one or more pressure-relief valves of the spring-loaded type and may in addition have a frangible disc or fusible element in parallel with the spring-loaded devices except when prohibited by reference in Part II to paragraph 12.9.2.

12.9.2. Pressure-relief devices shall be designed to prevent the entry of foreign matter, the leakage of liquid and the development of any dangerous excess pressure.

12.9.3. Tank shells for the carriage of certain substances which are required to comply with this paragraph as indicated in Part II should have a pressure relief device approved by the competent authority. Unless a tank in dedicated service is fitted with an approved relief valve constructed of materials compatible with the lading, such device should comprise a frangible disc preceding a spring-loaded valve. The space between the frangible disc and the valve should be provided with a pressure gauge or a suitable tell-tale indicator. This arrangement permits the detection of disc rupture, pinholing or leakage which could cause a malfunction of the pressure-relief device. The frangible disc in this instance should rupture at a pressure that is 10 per cent above the start-to-discharge pressure of the relief valve.

12.9.4. Every tank-container with a capacity of less than 1,900 litres should be fitted with a pressure relief device which may be a frangible disc if the latter complies with the requirements of paragraph 12.12.1. below.

12.10. Setting of pressure-relief devices

12.10.1. It should be noted that the safety device should operate only in conditions of excessive rise in temperature, as the tank will not during carriage be subject to undue fluctuations of pressure due to operating procedures (see however paragraph 12.13.2.).

12.10.2. The required pressure-relief valve should be set to start to discharge at a nominal pressure of five-sixths of the test pressure in the case of tanks having a test pressure below 4.5 bar (65 psi) and of two-thirds of the test pressure in the case of tanks having a test pressure of 4.5 bar or more. The valve should after discharge close at a pressure not lower than 10 per cent below the pressure at which discharge starts, and should remain closed at all lower pressures provid d that this requirement not be so constru d as to prevent the use of vacuum-relief valves or combination pressure-relief and vacuum-relief valves.

12.11. Fusible elements

12.11.1. Fusible elements if allowed under Part II, should function at a temperature between 110°C and 149°C provided that the developed pressure in the tank at the fusing temperature of the element does not exceed the test pressure of the tank. Fusible elements should not be utilized on tanks with a test pressure which exceeds 2.65 bar (37.5 psig).

12.12 Frangible discs

12.12.1. Except as provided in paragraph 12.9.3., frangible discs if used, should rupture at a nominal pressure equal to the test pressure. Particular attention should be given to the requirements of paragraphs 12.6.1. and 12.9.3. if frangible discs are used. Frangible discs should not operate within the ambient temperature range envisaged.

U = thermal conductivity of the insulation at 311°K in gcal/sec/°C/(sq. metre) (°C). This should be a function of the thickness of the insulation.

$$1\ (L)\quad Q = \frac{27,090,000\ A^{0.82}\ F}{LC}\sqrt{\frac{Z}{MT}}$$

where Q = minimum required rate of discharge in cubic feet of air per hour at 14.7 lb/in² abs. and 60°F;

A = exposed surface area of tank shell (in sq. ft.);

L = latent heat of evaporation in BTU/lb;

Z = compressibility factor for the vapour in lb, ft, °F units;

T = absolute temperature in degrees Rankin (°F + 460) at relieving conditions;

M = molecular weight of vapour in lb units;

C = a constant depending on ratio of specific heats of vapour, to be taken as 315 in inch, lb, hour and °F units

F = insulation factor: use 1 for uninsulated tanks, and $\frac{U\ (1,248 - t)}{44,960}$ for insulated tanks, where t is the temperature in °F of the vapour or gas in the tank as the device is venting

U = thermal conductivity of the insulation at 1200°F in BTU/h (sq. ft.). This should be a function of the insulation.

Alternatively to using the formulae above, tanks designed for the carriage of liquids may have their relief devices sized in accordance with the following tables. These tables assume an insulation value of F = 1 and should be adjusted accordingly if the tank is insulated. Other values used in determining these tables are:

In metric units: M = 86.7 T = 394°K L = 80 kcal/kg C = 315

In non-metric units: M = 86.7 T = 710°R L = 144 BTU/lb C = 315

Table for non-metric units

MINIMUM EMERGENCY VENT CAPACITY - Q
IN CUBIC FEET OF AIR PER HOUR AT
ATMOSPHERIC PRESSURE AND 60°F

Exposed area square feet	Cubic feet of Air per hour	Exposed area square feet	Cubic feet of Air per hour
20	27 600	270	251 000
30	36 800	300	276 000
40	46 000	350	322 000
50	55 200	400	368 000
60	64 400	450	414 000
70	73 600	500	461 000
80	82 800	550	507 000
90	92 000	600	552 000
100	101 000	650	598 000
120	121 000	700	644 000
140	138 000	750	690 000
160	156 000	800	736 000
180	174 000	850	782 000
200	184 000	900	828 000
225	193 000	950	874 000
250	210 000	1 000	920 000

12.14. Markings on relief devices

12.14.1. Every pressure-relief device should be plainly and permanently marked with the pressure or temperature at which it is set to discharge and the rated free-air delivery of the device.

12.15. Connexions to pressure-relief devices

12.15.1. Connexions to pressure-relief devices should be of sufficient size to enable the required discharge to pass unrestricted to the safety device. No stop-valve should be installed between the tank shell and the pressure-relief devices except where duplicate devices are provided for maintenance or other reasons and the stop-valves serving the devices actually in use are locked open or the stop-valves are interlocked so that at least one of the duplicate devices is always in use. Vents from the pressure-relief devices, where used, should deliver the relieved vapour or liquid to the atmosphere in conditions of minimum back-pressure on the relieving device.

12.16. Siting of pressure relief valves

12.16.1. Pressure-relief valve inlets should be sited on top of the tank in a position as near the longitudinal and transverse centre of the tank as possible. All pressure-relief device inlets should be situated in the vapour space of the tank and the devices so arranged as to ensure that the escaping vapour is discharged unobstructedly and in such a manner that it cannot impinge upon the tank shell. Protective devices which deflect the flow of vapour are permissible provided the required relief capacity is not reduced.

12.16.2. Arrangements should be made to prevent access to the valves by unauthorized persons and to protect the valves from damage caused by the tank overturning.

12.16.3. Precautions

12.16.3.1. Glass inlet-pipes, or pipes made of other easily destructible material, which are in direct communication with the contents of the tank should not be used.

12.16.4. Tank support, framework and lifting attachments

12.16.4.1. Tank-containers should be equipped with a support structure to provide adequate load bearing surfaces. Skids, frameworks, cradles or other similar devices are acceptable. The loadings specified in paragraph 12.4.11. should also be considered in this aspect of design.

12.16.4.2. The design of supports and frameworks for tanks, (e.g. cradles, frameworks, etc.) and their fittings and tie-down attachments should not cause excessive stress in any portion of the tank shell. Permanent lifting attachments and permanent tie-down attachments should be fitted to all tanks. They should preferably be fitted to the tank supports. However, these attachments should be secured to reinforcing plates located on the shell at the points of support.

12.16.4.3. In the design of supports and frameworks due regard should be paid to the effects of environmental corrosion, and in calculations for all structural members not constructed of corrosion-resistant materials a minimum corrosion allowance determined by the competent authority should be provided.

12.16.4.4. Tank-container frameworks intended to be lifted or secured by their corner castings should be designed to internationally accepted special tests, for example the ISO system. The use of such tank-container frameworks within an integrated system is strongly encouraged.

12.18.5. Fork-lift pockets of tanks-containers of 10,000 litres or more capacity should be capable of being closed off.

12.19. Approval, testing and marking of tanks

12.19.1. The competent approval authority or a body authorized by that authority should issue in respect of every new design of tank-container a certificate attesting that the tank-container and its attachments surveyed by that authority or that body are suitable for the purpose for which they are intended and meet the construction and equipment requirements of Part I of this document and, where appropriate, the particular requirements for the substances of Part II. Such certificate shall show the commodities or group of commodities allowed to be transported in the tank-container. The prototype test results, the substances for whose carriage the tank-container is approved and an approval number should be specified in a test report. If the tank-containers are manufactured without change in structural design this approval should be deemed to be design approval. The approval number should consist of the distinguishing sign or mark of the State in whose territory the approval was granted, i.e., the distinguishing sign for use in international traffic, as prescribed by the Convention on Road Traffic, Vienna 1968 and a registration number.

12.19.2. Design approval should be given in respect of at least one tank of each design and each size, it being, however, understood that a set of tests made on a tank of one size may serve for the approval of smaller tanks made of a material of the same kind and thickness by the same fabrication technique and with identical supports and equivalent closures and other appurtenances.

12.19.3. The shell and items of equipment of each tank-container should be inspected and tested, either together or separately, first before being put into service (initial inspection and test) and thereafter at intervals (periodic inspection and test). The initial inspection and test should include a check of the design characteristics, an internal and external examination and a hydraulic pressure test. If the shell and equipment have been pressure-tested separately, they should together be subjected after assembly to a leakproofness test. The periodic inspections and tests should include an internal and external examination and, as a general rule, a pressure test. Sheathing, thermal insulation and the like should be removed only to the extent required for reliable appraisal of the tank-container's condition. The initial and periodic pressure tests should be carried out, by an expert approved by the competent authority, at the test pressure indicated on the data plate of the tank-container, except in cases where periodic tests at lower test pressures are authorized.

While under pressure the tank should be inspected for leakage, corroded areas, dents or other conditions which indicate weakness that might render the tank unsafe in carriage and if any evidence of such unsafe condition is discovered the tank should not be placed in or returned to service until it has been repaired and the test, repeated, has been passed.

.....

.....

.....

Code to which tank is designed .....

Metallurgic design temperature (only if above + 50°C or below -20°C) .....

Maximum allowable working pressure for coils (where coils used) ..... bar (psig)

Tank material .....

Equivalent thickness in mild steel .....mm

Lining material (if any) .....

Capacity of each compartment (in compartmented containers) .....

Month, year and test pressure of most recent periodic tests: .....month .....year ..... bar (psig)

Stamp of expert who carried out most recent test .....

12.20.2. The following particulars should be marked either on the tank-container itself or on a metal plate firmly secured to the tank container:

Name of owner or operator .....

Name of substance being carried (and maximum mean bulk temperature if other than 50°C) .....

Date of the last visual inspection .....

Maximum permissible gross weight .....kg

Unladen (tare) weight .....kg

12.20.3. The contents should be identified as specified in Chapter 13 of the Recommendations.

12.20.4. Unless the name of the dangerous good being transported appears on the metal plate described in paragraph 12.20.1., a copy of the certificate specified in paragraph 12.19.1. should be made available upon a competent authority request and readily provided by the consignor, consignee or agent, as appropriate.

12.21. Carriage requirements

12.21.1. During carriage, tank-containers should be adequately protected against lateral and longitudinal impact and against overturning. If the shells and the service equipment are so constructed as to withstand impact or overturning they need not be protected in this way.

The maximum mean bulk temperature (T_r) should be taken as 50°C except that for journeys in temperate climatic conditions or extreme climatic conditions, the competent authorities concerned may agree to a lower or to a higher temperature, as appropriate.

12.22.5. The provisions of paragraphs 12.22.1. to 12.22.3. should not apply to tank-containers whose contents are maintained by means of a heating device at a temperature above 50°C during carriage. In such a case the degree of filling at the outset should be such that, through the action of a temperature regulator, the tank container is not full to more than 95 per cent of its capacity at any time during carriage.

12.22.6. Tank-containers should not be offered for transport:

(i) in an ullage condition liable to produce an unacceptable hydraulic force due to surge within the tank;

(ii) with residue of lading adhering to the outside of the tank shell or service equipment;

(iii) that are leaking or damaged to such an extent that the integrity of the tank or its lifting or securing arrangements may be affected, and

(iv) unless the service equipment has been examined and found to be in good working order.

12.22.7. Empty tank-containers not cleaned and not gas-free should comply with the same requirements as tanks filled with the previous substance.

12.23. Handling requirements

12.23.1. Fork-lift pockets of containers of 10,000 litres or more capacity should be closed off when the tank is filled.

12.300. Special requirements applicable to tank-containers intended for the carriage of inflammable liquids (Class 3)

12.301. The following general requirements relate particularly to tank-containers intended for the carriage of inflammable liquids (Class 3). Reference should also be made to the table, in Part II setting out particular requirements for individual substances of this Class.

12.302. All tank-containers intended for the carriage of inflammable liquids should be closed tanks and be fitted with relief devices in accordance with paragraphs 12.9.1. to 12.16.1.

Note: For tank-containers intended for use only on land, the pertinent regulations governing carriage by land may allow open venting systems.

PART TWO

DEUXIEME PARTIE

Particular requirements for individual substances

Prescriptions particulières pour chaque matière

EXPLANATORY NOTES FOR THE TABLES
NOTES EXPLICATIVES RELATIVES AUX TABLEAUX

COLUMN HEADINGS
TITRES DES COLONNES

DESCRIPTION	KEY TITRE	Explication Maj
United Nations Serial Number	UN N° N° ONU	Numéro de l'ONU
Name of substance	SUBSTANCE MATIERE	Nom de la matière
Class and division/ Packaging Group or Special Provision	CL/GRP	Classe et division/ groupe d'emballage ou disposition particulière
Additional labels (i.e. subsidiary risks)	ADD'L LBLS ETIQ. ETIF.	Etiquettes supplémentaires (risques subsidiaires)
Minimum Test Pressure (in bar)	MIN TEST PRESS (bar) PRESS.MIN. d'ETR.	Pression minimale d'épreuve (en bar)
Minimum Shell Thickness (see paragraph)	MIN SHELL THICK. EPAISS. MIN. de PAROI (ref. para.)	Epaisseur minimale de la paroi (voir paragraphe)
Bottom Openings (Allowed/see paragraph, or Not allowed)	BOTT. OPEN VID. p. BAS (ref. para.)	Vidange par le bas: autorisée/voir paragraphe, ou non autorisée (N.A.)
Pressure Relief Requirements (see paragraph or Normal)	PRESS REL. REG. de PRESS. (ref. para.)	Régulation de pression prescrite (voir paragraphe), ou conditions de transport normales (N.)
Degree of filling (see paragraph)	DEG. FILL. TAUX de REMPL. (ref. para.)	Taux de remplissage (voir paragraphe)

NOTES IN THE TABLE (column 7)
NOTES DU TABLEAU (colonne 7)

The maximum value permitted for the degree of filling has been determined as follows: - maximum degree of filling = 0.95 times the density of the liquid phase at 50°C, in addition the vapour phase must not disappear below 60°C.	1	La valeur maximale admise pour le de remplissage a été déterminée c suit: - taux maximal de remplissage = 0,95 fois la masse volumique de la phase liquide à 50°C; en outre, la phase vapeur ne doit pas disparaître à une température inférieure à 60°C.
Air to be eliminated by nitrogen or other means.	2	L'air doit être chassé par l'azo ou par un autre moyen.
Tank Test Pressure is based on flashpoint of substance, i.e.: (a) Flashpoint below 0°C, (b) Flashpoint 0°C-61°C.	3	La pression d'épreuve des réservo est fonction du point d'éclair de matières: a) correspond à un point d'éclair inférieur à 0°C, b) à un point d'éclair compris entre 0°C 61°C.
Any substance which meets the criteria of Group I should not be carried under this description.	4	Aucune matière répondant aux crit du Groupe I ne devrait être trans sous cette désignation.
Carriage in portable tanks should occur only under conditions laid down by the competent authority and providing that steps have been taken to achieve the safety equivalency of 35 per cent water and 65 per cent t-butyl hydroperoxide.	5	Le transport en citernes mobiles seulement s'effectuer dans les conditions fixées par l'autorité compétente et à condition que des mesures aient été prises pour réa une sécurité correspondant à 35% et 65% d'hydroperoxyde de butyle tertiaire.
An addition of a 5 mm lead or another compatible lining is required.	6	Un revêtement de 5mm en plomb ou autre matériau compatible est pr

TABLE 12.1

LIST OF DANGEROUS GOODS IN CLASS 2 SHIPPED IN BULK

This table will be developed later.

TABLE 12.2

LIST OF DANGEROUS GOODS IN CLASS 3 SHIPPED IN BULK

LISTE DES MATIERES DANGEREUSES DE LA CLASSE 3 - EXPEDITIONS EN VRAC

UN NO No ONU	SUBSTANCE MATIERE	CL./ GRP.	ADD'L LBLS. ETIQ. SUPP.	MIN TEST PRESS (bar) PRESS.MIN. d'EPR.	MIN SHELL THICK. EPAISS. MIN.de PAROI (ref. para.)	BOTT. OPEN VID. p.BAS. (ref. para.)	PRESS REL. REG.de PRESS. (ref. para.)	DEG. FILL. TAUX de REMPL. (ref. para.)
1088	Acetal	3/II		2.65	12.5.2	A/12.7.2	N.	12.22.2
	Acétal							
1089	Acetaldehyde[2]	3/I		6	6mm	A/12.7.3	N.	12.303
	Acétaldéhyde[2]							
1090	Acetone	3/II		2.65	12.5.2	A/12.7.3	N.	12.22.2
	Acétone							
1092	Acrolein, inhibited[2]	3/I	6.1	4	6 mm	N.A.	12.9.3	12.22.3
	Acroléin, stabilisée[2]							
1093	Acrylonitrile, inhibited	3/I	6.1	4	6 mm	N.A.	12.9.3	12.22.3
	Nitrile acrylique, stabilisé							
1098	Allyl alcohol	3/I	6.1	4	12.5.2	N.A.	12.9.3	12.22.3
	Alcool allylique							
1099	Allyl bromide	3/I	6.1	4	12.5.2	N.A.	12.9.3	12.22.3
	Bromure d'allyle							
1100	Allyl chloride	3/I	6.1	4	6 mm	N.A.	12.9.3	12.22.3
	Chlorure d'allyle							

TABLE 12.2

LIST OF DANGEROUS GOODS IN CLASS 3 SHIPPED IN BULK

LISTE DES MATIERES DANGEREUSES DE LA CLASSE 3 - EXPEDITIONS EN VRAC

UN NO No ONU	SUBSTANCE MATIERE	CL./ GRP.	ADD'L LBLS. ETIQ. SUPP.	MIN TEST PRESS (bar) PRESS.MIN. d'EPR.	MIN SHELL THICK. EPAISS. MIN.de PAROI (ref. para.)	BOTT. OPEN VID. p.BAS. (ref. para.)	PRESS REL. REG.de PRESS. (ref. para.)	DEG. FILL. TAUX de REMPL. (ref. para.)
1104	Amyl acetates	3/II		1.5	12.5.2	A/12.7.2	N.	12.22.2
	Acétates d'amyle							
1105	Amyl alcohols	3/II		1.5	12.5.2	A/12.7.2	N.	12.22.2
	Alcools amyliques							
1106	Amylamine	3/II		1.5	12.5.2	A/12.7.2	N.	12.22.2
1107	Amyl chloride	3/II		1.5	12.5.2	A/12.7.2	N.	12.22.2
	Chlorure d'amyle							
1108	Amylene, normal	3/I		4	12.5.2	A/12.7.3	N.	12.22.2
	Amylène normal							
1109	Amyl formates	3/II		1.5	12.5.2	A/12.7.2	N.	12.22.2
	Formiates d'amyle							
1110	Amyl methyl ketone	3/III		1.5	12.5.2	A/12.7.2	N.	12.22.2
	Amyl-méthyl-cétone							
1111	Amyl mercaptan	3/II		2.65	12.5.2	A/12.7.3	N.	12.22.2
	Mercaptan amylique							
1112	Amyl nitrate	3/II		1.5	12.5.2	A/12.7.2	N.	12.22.2
	Nitrate d'amyle							

TABLE 12.2

LIST OF DANGEROUS GOODS IN CLASS 3 SHIPPED IN BULK

LISTE DES MATIERES DANGEREUSES DE LA CLASSE 3 - EXPEDITIONS EN VRAC

UN NO No ONU	SUBSTANCE MATIERE	CL./ GRP.	ADD'L LBLS. ETIQ. SUPP.	MIN TEST PRESS (bar) PRESS.MIN. d'EPR.	MIN SHELL THICK. EPAISS. MIN.de PAROI (ref. para.)	BOTT. OPEN VID. p.BAS. (ref. para.)	PRESS REL. REG.de PRESS. (ref. para.)	DEG. FILL. TAUX de REMPL. (ref. para.)
1113	Amyl nitrite	3/II		2.65	12.5.2	A/12.7.3	N.	12.22.2
	Nitrite d'amyle							
1114	Benzene	3/II		2.65	12.5.2	A/12.7.3	N.	12.22.2
	Benzène							
1118	Brake fluid, hydraulic	3/II		2.65(a)[3] 1.5(b)	12.5.2	A/12.7.2	N.	12.22.2
	Liquide pour frein hydraulique							
1120	Butanols	3/102		1.5	12.5.2	A/12.7.2	N.	12.22.2
1123	Butyl acetates	3/II		1.5	12.5.2	A/12.7.2	N.	12.22.2
	Acétates de butyle							
1125	Butylamine, normal	3/II		2.65	12.5.2	A/12.7.3	N.	12.22.2
1126	Butyl bromide, normal	3/II		1.5	12.5.2	A/12.7.2	N.	12.22.2
	Bromure de butyle, normal							
1127	Chlorobutanes	3/II		2.65	12.5.2	A/12.7.3	N.	12.22.2

TABLE 12.2

LIST OF DANGEROUS GOODS IN CLASS 3 SHIPPED IN BULK

LISTE DES MATIERES DANGEREUSES DE LA CLASSE 3 - EXPEDITIONS EN VRAC

UN NO No ONU	SUBSTANCE MATIERE	CL./ GRP.	ADD'L LBLS. ETIQ. SUPP.	MIN TEST PRESS (bar) PRESS.MIN. d'EPR.	MIN SHELL THICK. EPAISS. MIN.de PAROI (ref. para.)	BOTT. OPEN VID. p.BAS. (ref. para.)	PRESS REL. REG.de PRESS. (ref. para.)	REG. FILL. TAUX de REMPL. (ref. para.)
1128	Butyl formate, normal	3/II		1.5	12.5.2	A/12.7.2	N.	12.22.2
1129	Butyraldehyde	3/II		2.65	12.5.2	A/12.7.3	N.	12.22.2
	Butyraldéhyde							
1130	Camphor oil	3/III		1.5	12.5.2	A/12.7.2	N.	12.22.2
	Huile de camphre							
1131	Carbon disulphide[2]	3/I	6.1	4	6 mm	N.A.	12.9.3	12.22.3
	Sulfure de carbone[2]							
1133	Cement, adhesive, containing an inflammable liquid	3/II		2.65(a)[3] 1.5 (b)	12.5.2	A/12.7.2	N.	12.22.2
	Ciment, adhésif, contenant un liquide inflammable							
1134	Chlorobenzene	3/II		1.5	12.5.2	A/12.7.2	N.	12.22.2
	Chlorobenzène							
1136	Coal tar, distillate, with flashpoint equal to or below 32°C	3/II		2.65	12.5.2	A/12.7.3	N.	12.22.2
	Goudron de houille, distillat de, ayant un point d'éclair égal ou inférieur à 32°C							

TABLE 12.2

LIST OF DANGEROUS GOODS IN CLASS 3 SHIPPED IN BULK

LISTE DES MATIERES DANGEREUSES DE LA CLASSE 3 - EXPEDITIONS EN VRAC

UN NO No ONU	SUBSTANCE MATIERE	CL./ GRP.	ADD'L LBLS. ETIQ. SUPP.	MIN TEST PRESS (bar) PRESS.MIN. d'EPR.	MIN SHELL THICK. EPAISS. MIN.de PAROI (ref. para.)	BOTT. OPEN VID. p.BAS. (ref. para.)	PRESS REL. REG.de PRESS. (ref. para.)	DEG. FILL. TAUX de REMPL. (ref. para.)
1137	Coal tar, distillate, with flashpoint above 32°C but less than 61°C Goudron de houille distillat de, ayant un point d'éclair supérieur à 32°C mais inférieur à 61°C	3/III		1.5	12.5.2	A/12.7.2	N.	12.22.2
1143	Crotonaldehyde, stabilized Aldéhyde crotonique, stabilisé	3/II		2.65	12.5.2	A/12.7.3	N.	12.22.2
1144	Crotonylene Crotonylène	3/I		6	12.5.2	A/12.7.3	N.	12.22.2
1145	Cyclohexane	3/II		2.65	12.5.2	A/12.7.3	N.	12.22.2
1146	Cyclopentane	3/II		4	12.5.2	A/12.7.3	N.	12.22.2
1147	Decahydronaphthalene Décahydronaphtaline	3/II		1.5	12.5.2	A/12.7.2	N.	12.22.2
1148	Diacetone alcohol Diacétone-alcool	3/II		1.5	12.5.2	A/12.7.2	N.	12.22.2
1149	Dibutyl ethers Ethers butyliques	3/III		1.5	12.5.2	A/12.7.2	N.	12.22.2

TABLE 12.2

LIST OF DANGEROUS GOODS IN CLASS 3 SHIPPED IN BULK

LISTE DES MATIERES DANGEREUSES DE LA CLASSE 3 - EXPEDITIONS EN VRAC

UN NO No ONU	SUBSTANCE MATIERE	CL./ GRP.	ADD'L LBLS. ETIQ. SUPP.	MIN TEST PRESS (bar) PRESS.MIN. d'EPR.	MIN SHELL THICK. EPAISS. MIN.de PAROI (ref. para.)	BOTT. OPEN VID. p.BAS. (ref. para.)	PRESS REL. REG.de PRESS. (ref. para.)	LEG. FILL. TAUX de REMPL. (ref. para.)
1150	Dichloroethylene Dichloréthylène	3/II		2.65	12.5.2	A/12.7.3	N.	12.22.2
1152	Dichloropentanes	3/II		1.5	12.5.2	A/12.7.2	N.	12.22.2
1153	Ethylene glycol diethyl ether Ether diéthylique de l'éthylène-glycol	3/III		1.5	12.5.2	A/12.7.2	N.	12.22.2
1154	Diethylamine Diéthylamine	3/II		2.65	12.5.2	A/12.7.3	N.	12.22.2
1155	Diethyl ether Ether éthylique	3/I		6	12.5.2	N.A.	N.	12.22.2
1156	Diethyl ketone Diéthylcétone	3/II		1.5	12.5.2	A/12.7.2	N.	12.22.2
1157	Diisobutyl ketone Di-isobutylcétone	3/III		1.5	12.5.2	A/12.7.2	N.	12.22.2
1158	Diisopropylamine	3/II		2.65	12.5.2	A/12.7.3	N.	12.22.2
1159	Diisopropyl ether Ether isopropylique	3/II		2.65	12.5.2	A/12.7.3	N.	12.22.2
1160	Dimethylamine (40 per cent solution) Diméthylamine, solution de 40%	3/II		2.65	12.5.2	A/12.7.3	N.	12.22.2
1161	Dimethyl carbonate Carbonate de méthyle	3/II		2.65	12.5.2	A/12.7.3	N.	12.22.2

TABLE 12.2

LIST OF DANGEROUS GOODS IN CLASS 3 SHIPPED IN BULK

LISTE DES MATIERES DANGEREUSES DE LA CLASSE 3 - EXPEDITIONS EN VRAC

UN NO No ONU	SUBSTANCE MATIERE	CL./ GRP.	ADD'L LBLS. ETIQ. SUPP.	MIN TEST PRESS (bar) PRESS.MIN. d'EPR.	MIN SHELL THICK. EPAISS. MIN.de PAROI (ref. para.)	BOTT. OPEN VID. p.RAS. (ref. para.)	PRESS REL. REG.de PRESS. (ref. para.)	DEG. FILL. TAUX de REMPL. (ref. para.)
1162	Dimethyldichloro-silane Diméthyl-dichloro-silane	3/I	8	4	6 mm	N.A.	N.	12.22.3
1163	Dimethylhydrazine, unsymmetrical Diméthylhydrazine asymétrique	3/I	8	4	12.5.2	N.A.	12.9.3	12.22.2
1164	Dimethyl sulphide Sulfure de méthyle	3/I		6	12.5.2	A/12.7.3	N.	12.22.2
1165	Dioxane Dioxanne	3/II		2.65	12.5.2	A/12.7.3	N.	12.22.2
1166	Dioxolane	3/II		2.65	12.5.2	A/12.7.3	N.	12.22.2
1167	Divinyl ether, inhibited Ether vinylique, stabilisé	3/II		4	12.5.2	A/12.7.3	N.	12.22.2
1168	Driers, paint or varnish in liquid form Siccatifs liquides pour peinture ou vernis, n.s.a.	3/II		2.65(a)[3] 1.5 (b)	12.5.2	A/12.7.3	N.	12.22.2
1169	Extracts, aromatic liquid Extraits aromatiques liquides	3/II02		2.65(a)[3] 1.5 (b)	12.5.2	A/12.7.2	N.	12.22.2

TABLE 12.2

LIST OF DANGEROUS GOODS IN CLASS 3 SHIPPED IN BULK

LISTE DES MATIERES DANGEREUSES DE LA CLASSE 3 - EXPEDITIONS EN VRAC

UN NO No ONU	SUBSTANCE MATIERE	CL./ GRP.	ADD'L LBLS. ETIQ. SUPP.	MIN TEST PRESS (bar) PRESS.MIN. d'EPR.	MIN SHELL THICK. EPAISS. MIN.de PAROI (ref. para.)	BOTT. OPEN VID. p.BAS. (ref. para.)	PRESS REL. REG.de PRESS. (ref. para.)	DEG. FILL. TAUX de REMPL. (ref. para.)
1170	Ethanol and its solutions including alcoholic beverages Alcool éthylique et ses solutions y compris les boissons alcooliques	3/102		1.5	12.5.2	A/12.7.2	N.	12.22.2
1171	Ethylene glycol monoethyl ether Ether monoéthylique de l'éthylène-glycol	3/III		1.5	12.5.2	A/12.7.2	N.	12.22.2
1172	Ethylene glycol monoethyl ether acetate Acétate de l'éther monoéthylique de l'éthylène-glycol	3/II		1.5	12.5.2	A/12.7.2	N.	12.22.2
1173	Ethyl acetate Acétate d'éthyle	3/II		2.65	12.5.2	A/12.7.3	N.	12.22.2
1175	Ethylbenzene Ethylbenzène	3/II		1.5	12.5.2	A/12.7.2	N.	12.22.2
1176	Ethyl borate Borate d'éthyle	3/II		2.65	12.5.2	A/12.7.3	N.	12.22.2
1177	Ethyl butyl acetate Acétate d'éthylbutyle	3/III		1.5	12.5.2	A/12.7.2	N.	12.22.2

TABLE 12.2

LIST OF DANGEROUS GOODS IN CLASS 3 SHIPPED IN BULK

LISTE DES MATIERES DANGEREUSES DE LA CLASSE 3 - EXPEDITIONS EN VRAC

UN NO No ONU	SUBSTANCE MATIERE	CL./ GRP.	ADD'L LBLS. ETIQ. SUPP.	MIN TEST PRESS (bar) PRESS.MIN. d'EPR.	MIN SHELL THICK. EPAISS. MIN.de PAROI (ref. para.)	BOTT. OPEN VID. p.BAS. (ref. para.)	PRESS REL. REG.de PRESS. (ref. para.)	DEG. FILL. TAUX de REMPL. (ref. para.)
1178	2-Ethylbutyraldehyde Aldéhyde 2-éthyl-butyrique	3/II		1.5	12.5.2	A/12.7.2	N.	12.22.2
1179	Ethyl butyl ether Ether éthylbutylique	3/II		1.5	12.5.2	A/12.7.2	N.	12.22.2
1180	Ethyl butyrate Butyrate d'éthyle	3/II		1.5	12.5.2	A/12.7.2	N.	12.22.2
1182	Ethyl chloroformate Chloroformiate d'éthyle	3/I	6.1 8	To be carried as specified by the competent authority concerned. A transporter comme il est spécifié par les autorités compétentes intéressées.				
1183	Ethyldichlorosilane	3/II	8	4	6 mm	N.A.	N.	12.22.3
1184	Ethylene dichloride Dichlorure d'éthylène	3/II	6.1	4	12.5.2	A/12.7.3	N.	12.22.2
1185	Ethyleneimine, inhibited, pure Ethylène-imine, stabilisée	3/I	6.1	Not permitted for carriage in tank containers Transport en conteneur-citerne non autorisé				
1188	Ethylene glycol monomethyl ether Ether monométhylique de l'éthylène glycol	3/III		1.5	12.5.2	A/12.7.2	N.	12.22.2

TABLE 12.2

LIST OF DANGEROUS GOODS IN CLASS 3 SHIPPED IN BULK

LISTE DES MATIERES DANGEREUSES DE LA CLASSE 3 - EXPEDITIONS EN VRAC

UN NO No ONU	SUBSTANCE MATIERE	CL./ GRP.	ADD'L LBLS. ETIQ. SUPP.	MIN TEST PRESS (bar) PRESS.MIN. d'EPR.	MIN SHELL THICK. EPAISS. MIN.de PAROI (ref. para.)	BOTT. OPEN VID. p.BAS. (ref. para.)	PRESS REL. REG.de PRESS. (ref. para.)	REG. FILL. TAUX de REMPL. (ref. para.)
1189	Ethylene glycol monomethyl ether acetate Acétate de l'éther monométhylique de l'éthylène-glycol	3/III		1.5	12.5.2	A/12.7.2	N.	12.22.2
1190	Ethyl formate Formiate d'éthyle	3/II		2.65	12.5.2	A/12.7.3	N.	12.22.2
1191	Ethyl hexaldehyde Ethyl-hexaldéhyde	3/III		1.5	12.5.2	A/12.7.2	N.	12.22.2
1192	Ethyl lactate Lactate d'éthyle	3/III		1.5	12.5.2	A/12.7.2	N.	12.22.2
1193	Ethyl methyl ketone Méthyl-éthylcétone	3/II		2.65	12.5.2	A/12.7.3	N.	12.22.2
1195	Ethyl propionate Propionate d'éthyle	3/II		1.5	12.5.2	A/12.7.2	N.	12.22.2
1196	Ethyl trichlorosilane	3/II	8	4	6 mm	A/12.7.3	N.	12.22.3
1197	Extracts, flavouring, liquid Extraits liquides pour aromatiser	3/102		2.65(a)3 1.5(b)	12.5.2	A/12.7.2	N.	12.22.2

TABLE 12.2

LIST OF DANGEROUS GOODS IN CLASS 3 SHIPPED IN BULK

LISTE DES MATIERES DANGEREUSES DE LA CLASSE 3 - EXPEDITIONS EN VRAC

UN NO No ONU	SUBSTANCE MATIERE	CL./ GRP.	ADD'L LBLS. ETIQ. SUPP.	MIN TEST PRESS (bar) PRESS.MIN. d'EPR.	MIN SHELL THICK. EPAISS. MIN.de PAROI (ref. para.)	BOTT. OPEN VID. p.BAS. (ref. para.)	PRESS REL. REG.de PRESS. (ref. para.)	REG. FILL. TAUX de REMPL. (ref. para.)
1198	Formaldehyde solutions with a flashpoint not more than 61°C Formaldéhyde en solutions avec un point d'éclair qui n'est pas supérieur à 61°C	3/II		2.65	12.5.2	A/12.7.3	N.	12.22.2
1199	Furfural	3/II		2.65	12.5.2	A/12.7.3	N.	12.22.2
1201	Fusel oil Huile de fusel	3/II		1.5	12.5.2	A/12.7.2	N.	12.22.2
1202	Gas oil Huile à diesel	3/II		2.65(a)[3] 1.5 (b)	12.5.2	A/12.7.2	N.	12.22.2
1203	Motor spirit (includes Gasoline or Petrol) Carburant pour moteur (comprend l'Essence)	3/II		2.65	12.5.2	A/12.7.3	N.	12.22.2
1204	Nitroglycerin, up to 1 per cent solution in alcohol Nitroglycérine en solutions alcoolique ne contenant pas plus de 1% de nitroglycérine	3/II		Not permitted for carriage in tank-containers Transport en conteneur-citerne non autorisé				

TABLE 12.2

LIST OF DANGEROUS GOODS IN CLASS 3 SHIPPED IN BULK

LISTE DES MATIERES DANGEREUSES DE LA CLASSE 3 - EXPEDITIONS EN VRAC

UN NO No ONU	SUBSTANCE MATIERE	CL./ GRP.	ADD'L LBLS. ETIQ. SUPP.	MIN TEST PRESS (bar) PRESS.MIN. d'EPR.	MIN SHELL THICK. EPAISS. MIN.de PAROI (ref. para.)	BOTT. OPEN VID. p.BAS. (ref. para.)	PRESS REL. REG.de PRESS. (ref. para.)	REG. FILL. TAUX de REMPL. (ref. para.)
1205	Gutta percha solution	3/II		2.65(a)[3] 1.5 (b)	12.5.2	A/12.7.2	N.	12.22.2
	Gutta-percha, solution de							
1206	Heptane and its isomers	3/II		2.65	12.5.2	A/12.7.3	N.	12.22.2
	Heptane et ses isomères							
1207	Hexaldehyde	3/III		1.5	12.5.2	A/12.7.2	N.	12.22.2
	Hexaldéhyde							
1208	Hexane and its isomers	3/II		2.65	12.5.2	A/12.7.3	N.	12.22.2
	Hexane et ses isomères							
1210	Ink, printer's, with a flashpoint below 32°C	3/II		2.65(a)[3] 1.5(b)	12.5.2	A/12.7.2	N.	12.22.2
	Encres d'imprimerie, avec un point d'éclair inférieur à 32°C							
1212	Isobutanol	3/II		1.5	12.5.2	A/12.7.2	N.	12.22.2
1213	Isobutyl acetate	3/II		1.5	12.5.2	A/12.7.2	N.	12.22.2
	Acétate d'isobutyle							
1214	Isobutylamine	3/II		2.65	12.5.2	A/12.7.3	N.	12.22.2
1216	Isooctene	3/II		2.65	12.5.2	A/12.7.3	N.	12.22.2
	Isooctène							

TABLE 12.2

LIST OF DANGEROUS GOODS IN CLASS 3 SHIPPED IN BULK

LISTE DES MATIERES DANGEREUSES DE LA CLASSE 3 - EXPEDITIONS EN VRAC

UN NO No ONU	SUBSTANCE MATIERE	CL./ GRP.	ADD'L LBLS. ETIQ. SUPP.	MIN TEST PRESS (bar) PRESS.MIN. d'EPR.	MIN SHELL THICK. EPAISS. MIN.de PAROI (ref. para.)	BOTT. OPEN VID. p.BAS. (ref. para.)	PRESS REL. REG.de PRESS. (ref. para.)	DEG. FILL. TAUX de REMPL. (ref. para.)
1218	Isoprene, inhibited	3/I		6	12.5.2	A/12.7.3	N.	12.303
	Isoprène, stabilisé							
1219	Isopropanol	3/II		1.5	12.5.2	A/12.7.2	N.	12.22.2
1220	Isopropyl acetate	3/II		1.5	12.5.2	A/12.7.2	N.	12.22.2
	Acétate d'isopropyle							
1221	Isopropylamine	3/I		6	12.5.2	A/12.7.3	N.	12.22.2
1222	Isopropyl nitrate	3/II		Not permitted for carriage in tank containers				
	Nitrate d'isopropyle			Transport en conteneur-citerne non autorisé				
1223	Kerosene	3/II		1.5	12.5.2	A/12.7.2	N.	12.22.2
	Kérosène							
1229	Mesityl oxide	3/II		2.65	12.5.2	A/12.7.3	N.	12.22.2
	Oxyde de mésityle							
1230	Methanol	3/II	6.1	4	12.5.2	A/12.7.3	N.	12.22.3
	Méthanol							
1231	Methyl acetate	3/II		2.65	12.5.2	A/12.7.3	N.	12.22.2
	Acétate de méthyle							
1232	Methyl acetone	3/II		2.65	12.5.2	A/12.7.3	N.	12.22.2
	Méthyl-acétone							

TABLE 12.2

LIST OF DANGEROUS GOODS IN CLASS 3 SHIPPED IN BULK

LISTE DES MATIERES DANGEREUSES DE LA CLASSE 3 - EXPEDITIONS EN VRAC

UN NO No ONU	SUBSTANCE MATIERE	CL./ GRP.	ADD'L LBLS. ETIQ. SUPP.	MIN TEST PRESS (bar) PRESS.MIN. d'EPR.	MIN SHELL THICK. EPAISS. MIN.de PAROI (ref. para.)	BOTT. OPEN VID. p.BAS. (ref. para.)	PRESS REL. REG.de PRESS. (ref. para.)	REG. FILL. TAUX de REMPL. (ref. para.)
1233	Methyl amylacetate Amylacétate de méthyle	3/III		1.5	12.5.2	A/12.7.2	N.	12.22.2
1234	Methylal Méthylal	3/II		2.65	12.5.2	A/12.7.3	N.	12.22.2
1235	Methylamine aqueous solution Méthylamine en solution, aqueuse	3/II		2.65	12.5.2	A/12.7.3	N.	12.22.2
1237	Methyl butyrate Butyrate de méthyle	3/II		1.5	12.5.2	A/12.7.2	N.	12.22.2
1238	Methyl chloroformate Chloroformiate de méthyle	3/I	6.1 8	6	6mm	N.A.	12.9.3	12.22.3
1239	Methylchloromethyl ether Ether méthylique monochloré	3/II		2.65	12.5.2	A/12.7.3	N.	12.22.2
1242	Methyldichlorosilane Méthyldichlorosilane	3/I	8	4	6 mm	A/12.7.3	N.	12.22.3
1243	Methyl formate Formiate de méthyle	3/I		6	12.5.2	A/12.7.3	N.	12.303
1244	Methylhydrazine Méthylhydrazine	3/I	8	6	6 mm	N.A.	12.9.3	12.22.3

TABLE 12.2

LIST OF DANGEROUS GOODS IN CLASS 3 SHIPPED IN BULK

LISTE DES MATIERES DANGEREUSES DE LA CLASSE 3 - EXPEDITIONS EN VRAC

UN NO No ONU	SUBSTANCE MATIERE	CL./ GRP.	ADD'L LBLS. ETIQ. SUPP.	MIN TEST PRESS (bar) PRESS.MIN. d'EPR.	MIN SHELL THICK. EPAISS. MIN.de PAROI (ref. para.)	BOTT. OPEN VID. p.BAS. (ref. para.)	PRESS REL. REG.de PRESS. (ref. para.)	LEG. FILL. TAUX de REMPL. (ref. para.)
1245	Methyl isobutyl ketone Méthyl-isobutyl-cétone	3/II		1.5	12.5.2	A/12.7.2	N.	12.22.2
1246	Methyl isopropenyl ketone, inhibited Méthyl-isopropényl-cétone, stabilisé	3/II		1.5	12.5.2	A/12.7.2	N.	12.22.2
1247	Methylmethacrylate monomer, inhibited Méthacrylate de méthyle monomère, stabilisé	3/II		2.65	12.5.2	A/12.7.3	N.	12.22.2
1248	Methyl propionate Propionate de méthyle	3/II		2.65	12.5.2	A/12.7.3	N.	12.22.2
1249	Methyl propyl ketone Méthyl-propylcétone	3/II		1.5	12.5.2	A/12.7.2	N.	12.22.2
1250	Methyltrichloro-silane Méthyltrichloro-silane	3/II	8	4	6 mm	A/12.7.3	N.	12.22.3
1251	Methyl vinyl ketone Méthyl-vinylcétone	3/II		2.65	12.5.2	A/12.7.3	N.	12.22.2
1255	Naphtha, petroleum Naphte, essence lourde	3/II		2.65	12.5.2	A/12.7.3	N.	12.22.2

TABLE 12.2

LIST OF DANGEROUS GOODS IN CLASS 3 SHIPPED IN BULK

LISTE DES MATIERES DANGEREUSES DE LA CLASSE 3 - EXPEDITIONS EN VRAC

UN NO No ONU	SUBSTANCE MATIERE	CL./ GRP.	ADD'L LBLS. ETIQ. SUPP.	MIN TEST PRESS (bar) PRESS.MIN. d'EPR.	MIN SHELL THICK. EPAISS. MIN.de PAROI (ref. para.)	BOTT. OPEN VID. p.BAS. (ref. para.)	PRESS REL. REG.de PRESS. (ref. para.)	REG. FILL. TAUX de REMPL. (ref. para.)
1256	Naphtha, solvent Solvant-naphte	3/II		1.5	12.5.2	A/12.7.2	N.	12.22.2
1257	Natural gasoline Essence de gaz naturel	3/II		2.65	12.5.2	A/12.7.3	N.	12.22.2
1261	Nitromethane Nitrométhane	3/II		Not permitted for carriage in tank-containers Transport en conteneur-citerne non autorisé				
1262	Octane and its isomers Octane et ses isomères	3/II		1.5	12.5.2	A/12.7.2	N.	12.22.2
1263	Paints, enamels, lacquers, stains, shellac, varnish, polishes, fillers, (liquid) lacquer base and thinners, etc. Peintures, peintures-émail, laques, colorants, shellac, vernis, cirages, encaustiques, enduits d'apprêts (liquides) bases pour laques et diluants, etc.	3/II		2.65(a)3 1.5 (b)	12.5.2	A/12.7.2	N.	12.22.2
1264	Paraldehyde Paraldéhyde	3/III		1.5	12.5.2	A/12.7.2	N.	12.22.2
1265	Isopentane	3/I		6	12.5.2	A/12.7.3	N.	12.303

TABLE 12.2

LIST OF DANGEROUS GOODS IN CLASS 3 SHIPPED IN BULK

LISTE DES MATIERES DANGEREUSES DE LA CLASSE 3 - EXPEDITIONS EN VRAC

UN NO No ONU	SUBSTANCE MATIERE	CL./ GRP.	ADD'L LBLS. ETIQ. SUPP.	MIN TEST PRESS (bar) PRESS.MIN. d'EPR.	MIN SHELL THICK. EPAISS. MIN.de PAROI (ref. para.)	BOTT. OPEN VID. p.RAS. (ref. para.)	PRESS REL. REG.de PRESS. (ref. para.)	DEG. FILL. TAUX de REMPL. (ref. para.)
1265	Pentane Pentane, normal	3/I		6	12.5.2	A/12.7.3	N.	12.22.2
1266	Perfumery products containing inflammable solvents Produits pour parfumerie renfermant des solvants inflammables	3/II		2.65(a)3 1.5 (b)	12.5.2	A/12.7.2	N.	12.22.2
1271	Petroleum spirit Essence minérale légère	3/II		2.65	12.5.2	A/12.7.3	N.	12.22.2
1272	Pine oil Essence de térébenthine	3/III		1.5	12.5.2	A/12.7.2	N.	12.22.2
1274	Propanol	3/II		1.5	12.5.2	A/12.7.2	N.	12.22.2
1275	Propionaldehyde Aldéhyde propionique	3/II		2.65	12.5.2	A/12.7.3	N.	12.22.2
1276	Propyl acetate, normal Acétate de propyle, normal	3/II		1.5	12.5.2	A/12.7.2	N.	12.22.2
1277	Propylamine	3/II		2.65	12.5.2	N.A.	12.9.3	12.22.2
1278	Propyl chloride Chlorure de propyle	3/II		2.65	12.5.2	A/12.7.3	N.	12.22.2

TABLE 12.2

LIST OF DANGEROUS GOODS IN CLASS 3 SHIPPED IN BULK

LISTE DES MATIERES DANGEREUSES DE LA CLASSE 3 - EXPEDITIONS EN VRAC

UN NO No ONU	SUBSTANCE MATIERE	CL./ GRP.	ADD'L LBLS. ETIQ. SUPP.	MIN TEST PRESS (bar) PRESS.MIN. d'EPR.	MIN SHELL THICK. EPAISS. MIN.de PAROI (ref. para.)	BOTT. OPEN VID. p.RAS. (ref. para.)	PRESS REL. REG.de PRESS. (ref. para.)	DEG. FILL. TAUX de REMPL. (ref. para.)
1279	Propylene dichloride Dichlorure de propylène	3/II		1.5	12.5.2	A/12.7.2	N.	12.22.2
1280	Propylene oxide Oxyde de propylène	3/I		6	12.5.2	A/12.7.3	N.	12.22.2
1281	Propyl formates Formiates de propyle	3/II		2.65	12.5.2	A/12.7.3	N.	12.22.2
1282	Pyridine	3/II	6.1	2.65	12.5.2	A/12.7.3	N.	12.22.3
1286	Resin oil Huile de résine	3/III		1.5	12.5.2	A/12.7.2	N.	12.22.2
1287	Rubber solution Caoutchouc, solution de	3/II		2.65(a)[3] 1.5 (b)	12.5.2	A/12.7.2	N.	12.22.2
1288	Shale oil Huile de schiste	3/II		2.65(a)[3] 1.5 (b)	12.5.2	A/12.7.2	N.	12.22.2
1289	Sodium methylate solutions in alcohol Méthylate de sodium, solutions alcooliques de	3/II		2.65	12.5.2	A/12.7.3	N.	12.22.2

TABLE 12.2

LIST OF DANGEROUS GOODS IN CLASS 3 SHIPPED IN BULK

LISTE DES MATIERES DANGEREUSES DE LA CLASSE 3 - EXPEDITIONS EN VRAC

UN NO No ONU	SUBSTANCE MATIERE	CL./ GRP.	ADD'L LBLS. ETIQ. SUPP.	MIN TEST PRESS (bar) PRESS.MIN. d'EPR.	MIN SHELL THICK. EPAISS. MIN.de PAROI (ref. para.)	BOTT. OPEN VID. p.BAS. (ref. para.)	PRESS REL. REG.de PRESS. (ref. para.)	LEG. FILL. TAUX de REMPL. (ref. para.)
1292	Tetraethyl silicate Silicate tétra-éthylique	3/II		1.5	12.5.2	A/12.7.2	N.	12.22.2
1294	Toluene Toluène	3/II		1.5	12.5.2	A/12.7.2	N.	12.22.2
1296	Triethylamine Triéthylamine	3/II		2.65	12.5.2	A/12.7.3	N.	12.22.2
1297	Trimethylamine, aqueous solutions containing not more than 30 per cent trimethylamine Triméthylamine, solutions aqueuses ne contenant pas plus de 30% de triméthylamine	3/II		2.65	12.5.2	A/12.7.3	N.	12.22.2
1298	Trimethylchlorosilane Triméthylchloro-silane	3/I	8	6	6 mm	A/12.7.3	N.	12.22.3
1299	Turpentine Térébenthine	3/III		1.5	12.5.2	A/12.7.2	N.	12.22.2
1300	Turpentine substitute Térébenthine, succédané de	3/II		1.5	12.5.2	A/12.7.2	N.	12.22.2

TABLE 12.2

LIST OF DANGEROUS GOODS IN CLASS 3 SHIPPED IN BULK

LISTE DES MATIERES DANGEREUSES DE LA CLASSE 3 - EXPEDITIONS EN VRAC

UN NO No ONU	SUBSTANCE MATIERE	CL./ GmP.	ADD'L LBLS. ETIQ. SUPP.	MIN TEST PRESS (bar) PRESS.MIN. d'EPR.	MIN SHELL THICK. EPAISS. MIN.de PAROI (ref. para.)	BOTT. OPEN VID. p.RAS. (ref. para.)	PRESS REL. REG.de PRESS. (ref. para.)	DEG. FILL. TAUX de REMPL. (ref. para.)
1301	Vinyl acetate, inhibited Acétate de vinyle, stabilisé	3/II		2.65	12.5.2	A/12.7.3	N.	12.22.2
1302	Vinyl ethyl ether, inhibited Ether éthylvinylique, stabilisé	3/I		4	12.5.2	A/12.7.3	N.	12.22.2
1303	Vinylidene chloride, inhibited[2] Chlorure de vinylidène, stabilisé[2]	3/I		6	12.5.2	A/12.7.3	No vacuum relief valve Pas de soupape de dépression	12.22.2
1304	Vinyl isobutyl ether, inhibited Ether isobutylvinylique, stabilisé	3/II		2.65	12.5.2	A/12.7.3	N.	12.22.2
1305	Vinyltrichlorosilane, inhibited Vinyltrichlorosilane, stabilisé	3/I	8	4	6 mm	A/12.7.3	N.	12.22.3
1307	Xylene Xylène	3/II		1.5	12.5.2	A/12.7.2	N.	12.22.2

TABLE 12.2

LIST OF DANGEROUS GOODS IN CLASS 3 SHIPPED IN BULK

LISTE DES MATIERES DANGEREUSES DE LA CLASSE 3 - EXPEDITIONS EN VRAC

UN NO No ONU	SUBSTANCE MATIERE	CL./ GRP.	ADD'L LBLS. ETIQ. SUPP.	MIN TEST PRESS (bar) PRESS.MIN. d'EPR.	MIN SHELL THICK. EPAISS. MIN.de PAROI (ref. para.)	BOTT. OPEN VID. p.BAS. (ref. para.)	PRESS REL. REG.de PRESS. (ref. para.)	REG. FILL. TAUX de REMPL. (ref. para.)
1648	Methyl cyanide	3/II	6.1	2.65	12.5.2	A/12.7.3	N.	12.22.3
	Cyanure de méthyle							
1716	Acetyl bromide	3/II	8	2.65	12.5.2	N.A.	12.9.3	12.22.3
	Bromure d'acétyle							
1717	Acetyl chloride	3/II	8	2.65	12.5.2	N.A.	N.	12.22.3
	Chlorure d'acétyle							
1815	Propionyl chloride	3/II	8	2.65	12.5.2	A/12.7.2	N.	12.22.2
	Chlorure de propionyle							
1862	Ethyl crotonate	3/II		1.5	12.5.2	A/12.7.2	N.	12.22.3
	Crotonate d'éthyle							
1863	Fuel, aviation, turbine engine	3/II		2.65(a)3 1.5 (b)	12.5.2	A/12.7.2	N.	12.22.2
	Carburant d'aviation pour moteur à turbine							
1864	Gas drips, hydrocarbon	3/II		2.65(a)3 1.5(b)	12.5.2	A/12.7.2	N.	12.22.2
	Hydrocarbures, condensats de							
1865	Propyl nitrate, normal	3/II		Not permitted for carriage in tank-containers				
	Nitrate de propyle, normal			Transport en conteneur-citerne non autorisé				

TABLE 12.2

LIST OF DANGEROUS GOODS IN CLASS 3 SHIPPED IN BULK

LISTE DES MATIERES DANGEREUSES DE LA CLASSE 3 - EXPEDITIONS EN VRAC

UN NO No ONU	SUBSTANCE MATIERE	CL./ GRP.	ADD'L LBLS. ETIQ. SUPP.	MIN TEST PRESS (bar) PRESS.MIN. d'EPR.	MIN SHELL THICK. EPAISS. MIN.de PAROI (ref. para.)	BOTT. OPEN VID. p.PAS. (ref. para.)	PRESS REL. REG.de PRESS. (ref. para.)	REG. FILL. TAUX de REMPL. (ref. para.)
1866	Resin solution in inflammable liquid, with a flashpoint below 32°C Résine dans un liquide inflammable, solution de, avec un point d'éclair inférieur à 32°C	3/II		2.65(a)[3] 1.5(b)	12.5.2	A/12.7.2	N.	12.22.2
1898	Acetyl iodide Iodure d'acétyle	3/I	8	4	12.5.2	A/12.7.3	N.	12.22.2
1914	Butylpropionate Propionate butylique	3/II		1.5	12.5.2	A/12.7.2	N.	12.22.2
1915	Cyclohexanone	3/III		1.5	12.5.2	A/12.7.2	N.	12.22.2
1917	Ethyl acrylate, inhibited Acrylate d'éthyle, stabilisé	3/II		2.65	12.5.2	A/12.7.3	N.	12.22.2
1918	Isopropylbenzene Isopropylbenzène	3/II		1.5	12.5.2	A/12.7.2	N.	12.22.2
1919	Methyl acrylate, inhibited Acrylate de méthyle, stabilisé	3/II		2.65	12.5.2	A/12.7.3	N.	12.22.2
1920	Nonane	3/II		1.5	12.5.2	A/12.7.2	N.	12.22.2
1921	Propyleneimine, inhibited Propylène-imine, stabilisée	3/I		Not permitted for carriage in tank container Transport en conteneur-citerne non autorisé				

TABLE 12.2

LIST OF DANGEROUS GOODS IN CLASS 3 SHIPPED IN BULK

LISTE DES MATIERES DANGEREUSES DE LA CLASSE 3 - EXPEDITIONS EN VRAC

UN NO No ONU	SUBSTANCE MATIERE	CL./ GRP.	ADD'L LBLS. ETIQ. SUPP.	MIN TEST PRESS (bar) PRESS.MIN. d'EPR.	MIN SHELL THICK. EPAISS. MIN.de PAROI (ref. para.)	BOTT. OPEN VID. p.BAS. (ref. para.)	PRESS REL. REG.ce PRESS. (ref. para.)	LEG. FILL. TAUX de REMPL. (ref. para.)
1922	Pyrrolidine	3/II		1.5	12.5.2	A/12.7.2	N.	12.22.2
1991	Chloroprene, inhibited	3/I	6.1	4	12.5.2	N.A.	12.9.3	12.22.3
	Chloroprène, stabilisé							
1992	Inflammable liquids, toxic, n.o.s.[4]	3/130	6.1	4	12.5.2	A/12.7.3	12.9.3	12.22.3
	Liquides, inflammables, toxiques, n.s.a.[4]							
1993	Inflammable liquids, non-toxic, n.o.s.[4]	3/102		2.65(a)[3] 1.5(b)	12.5.2	A/12.7.3	N.	12.22.2
	Liquides, inflammables, non toxiques, n.s.a.[4]							
1999	Tars, liquid, including road asphalt and oils, bitumen and cutbacks	3/II		1.5	12.5.2	A/12.7.2	N.	12.22.2
	Goudrons liquides, y compris les liants routiers et les cut backs bitumineux							
2029	Hydrazine, anhydrous[2] and its aqueous solutions containing more than 64 per cent by weight of hydrazine	3/I	6.1 8	4	12.5.2	A/12.7.3	N.	12.22.3
	Hydrazine anhydre[2] et ses solutions aqueuses contenant plus de 64% en poids, d'hydrazine							

TABLE 12.2

LIST OF DANGEROUS GOODS IN CLASS 3 SHIPPED IN BULK

LISTE DES MATIERES DANGEREUSES DE LA CLASSE 3 - EXPEDITIONS EN VRAC

UN NO No ONU	SUBSTANCE MATIERE	CL./ GRP.	ADD'L LBLS. ETIQ. SUPP.	MIN TEST PRESS (bar) PRESS.MIN. d'EPR.	MIN SHELL THICK. EPAISS. MIN.de PAROI (ref. para.)	BOTT. OPEN VID. p.BAS. (ref. para.)	PRESS REL. REG.de PRESS. (ref. para.)	LEG. FILL. TAUX de REMPL. (ref. para.)
2045	Isobutyraldehyde Isobutyraldéhyde	3/II		2.65	12.5.2	A/12.7.3	N.	12.22.2
2046	Cymenes Cymènes	3/III		1.5	12.5.2	A/12.7.2	N.	12.22.2
2047	Dichloropropene Dichloropropène	3/II		2.65	12.5.2	A/12.7.3	N.	12.22.2
2048	Dicyclopentadiene Dicyclopentadiène	3/II		2.65	12.5.2	A/12.7.3	N.	12.22.2
2049	Diethylbenzene Diéthylbenzène	3/II		1.5	12.5.2	A/12.7.2	N.	12.22.2
2050	Diisobutylene, isomeric compounds Di-isobutylène, composés isomériques	3/II		1.5	12.5.2	A/12.7.2	N.	12.22.2
2051	Dimethylethanol-amine Diméthyléthanol-amine	3/II		1.5	12.5.2	A/12.7.2	N.	12.22.2

TABLE 12.2

LIST OF DANGEROUS GOODS IN CLASS 3 SHIPPED IN BULK

LISTE DES MATIERES DANGEREUSES DE LA CLASSE 3 - EXPEDITIONS EN VRAC

UN NO No ONU	SUBSTANCE MATIERE	CL./ GRP.	ADD'L LBLS. ETIQ. SUPP.	MIN TEST PRESS (bar) PRESS.MIN. d'EPR.	MIN SHELL THICK. EPAISS. MIN.de PAROI (ref. para.)	BOTT. OPEN VID. p.BAS. (ref. para.)	PRESS REL. REG.de PRESS. (ref. para.)	REG. FILL. TAUX de REMPL. (ref. para.)
2052	Dipentene Dipentène	3/II		1.5	12.5.2	A/12.7.2	N.	12.22.2
2053	Methyl isobutyl carbinol Alcool méthylamylique	3/II		1.5	12.5.2	A/12.7.2	N.	12.22.2
2054	Morpholine	3/II		1.5	12.5.2	A/12.7.2	N.	12.22.2
2055	Styrene monomer, inhibited Styrène, stabilisé	3/II		1.5	12.5.2	A/12.7.2	N.	12.22.2
2056	Tetrahydrofuran Tétrahydrofuranne	3/II		2.65	12.5.2	A/12.7.3	N.	12.22.2
2057	Tripropylene Tripropylène	3/II		1.5	12.5.2	A/12.7.2	N.	12.22.2
2058	Valeraldehyde Valéraldéhyde	3/II		1.5	12.5.2	A/12.7.2	N.	12.22.2
2059 2060	Nitrocellulose solutions Nitrocellulose, solutions de	3/II		2.65	12.5.2	N.A.	N.	12.22.2

TABLE 17.2

LIST OF DANGEROUS GOODS IN CLASS 3 SHIPPED IN BULK

LISTE DES MATIERES DANGEREUSES DE LA CLASSE 3 - EXPEDITIONS EN VRAC

UN NO No ONU	SUBSTANCE MATIERE	CL./ GRP.	ADD'L LBLS. ETIQ. SUPP.	MIN TEST PRESS (bar) PRESS.MIN. d'EPR.	MIN SHELL THICK. EPAISS. MIN.de PAROI (ref. para.)	BOTT. OPEN VID. p.BAS. (ref. para.)	PRESS REL. REG.de PRESS. (ref. para.)	REG. FILL. TAUX de REMPL. (ref. para.)
2234	Chlorobenzotri-fluorides	3/III		1.5	12.5.2	A/12.7.2	N.	12.22.2
	Trifluorures de chlorobenzylidyne							
2265	N,N-Dimethyl-formamide	3/III		1.5	12.5.2	A/12.7.2	N.	12.22.3
2271	Ethyl amyl ketone	3/III		1.5	12.5.2	A/12.7.2	N.	12.22.2
	Ethylamylcétone							
2275	2-Ethylbutanol	3/III		1.5	12.5.2	A/12.7.2	N.	12.22.2
	Ethyl-2-butanol							
2278	Heptene	3/II		2.65	12.5.2	A/12.7.3	N.	12.22.2
	Heptène, normal							
2283	Isobutyl meth-acrylate	3/III		1.5	12.5.2	A/12.7.2	N.	12.22.2
	Méthacrylate d'isobutyle							
2295	Methyl chloro-acetate	3/II		2.65	12.5.2	A/12.7.3	12.9.3	12.22.3
	Chloracétate de méthyle							
2296	Methyl cyclohexane	3/II		2.65	12.5.2	A/12.7.3	N.	12.22.2
	Méthylcyclohexane							

TABLE 17.2

LIST OF DANGEROUS GOODS IN CLASS 3 SHIPPED IN BULK

LISTE DES MATIÈRES DANGEREUSES DE LA CLASSE 3 - EXPÉDITIONS EN VRAC

UN NO No ONU	SUBSTANCE MATIÈRE	CL./ SRF.	ADD'L HAZ. ETIQ. SUP.	MIN TEST PRESS (bar) PRESS.MIN. d'ÉPR.	MIN SHELL THICK. EPAISS. MIN.de PAROI (ref. para.)	BOTT. OPEN VID. p.RAS. (ref. para.)	PRESS REL. REG.de PRESS. (ref. para.)	LEG. FILL. TAUX de REMPL. (ref. para.)
2297	Methyl cyclohexanone Méthylcyclohexanone	3/II		1.5	12.5.2	A/12.7.2	N.	12.22.2
2298	Methyl cyclopentane Méthylcyclopentane	3/II		2.65	12.5.2	A/12.7.3	N.	12.22.2
2310	Pentane-2,4-dione Pentanedione-2,4	3/III		1.5	12.5.2	A/12.7.2	N.	12.22.2
2313	α-Picoline, β-Picoline	3/II		2.65	12.5.2	A/12.7.3	N.	12.22.2
2329	Trimethyl phosphite Phosphite de méthyle	3/III		1.5	12.5.2	A/12.7.2	N.	12.22.2
2338	Benzotrifluoride Fluorure de benzylidyne	3/II		1.5	12.5.2	A/12.7.2	N.	12.22.2
2348	Butyl acrylate Acrylate de butyle	3/II		2.65	12.5.2	A/12.7.3	N.	12.22.2
2363	Ethyl mercaptan Mercaptan éthylique	3/II	6.1	4	12.5.2	N.A.	N.	12.22.2
2367	α- Methyl valeraldehyde α- Méthyl valéraldéhyde	3/II		1.5	12.5.2	A/12.7.2	N.	12.22.2

TABLE 12.2

LIST OF DANGEROUS GOODS IN CLASS 3 SHIPPED IN BULK

LISTE DES MATIERES DANGEREUSES DE LA CLASSE 3 - EXPEDITIONS EN VRAC

UN NO No ONU	SUBSTANCE MATIERE	CL./ GRP.	ADD'L LBLS. ETIQ. SUPP.	MIN TEST PRESS (bar) PRESS.MIN. d'EPR.	MIN SHELL THICK. EPAISS. MIN.de PAROI (ref. para.)	BOTT. OPEN VID. p.BAS. (ref. para.)	PRESS REL. REG.de PRESS. (ref. para.)	DEG. FILL. TAUX de REMPL. (ref. para.)
2368	α-Pinene	3/III		1.5	12.5.2	A/12.7.2	N.	12.22.2
	α-Pinène							
2370	Hex-1-ene	3/II		2.65	12.5.2	A/12.7.3	N.	12.22.2
	Hexène-1							
2371	Isopentenes	3/I		6	12.5.2	A/12.7.3	N.	12.22.2
	Isopentènes							
2375	Diethyl sulphide	3/II	6.1	4	12.5.2	N.A.	N.	12.22.2
	Sulfure d'éthyle							
2382	Dimethyl hydrazine, symmetrical	3/I	6.1	6	6 mm	N.A.	12.9.3	12.22.3
	N,N-Diméthylhydrazine							
2383	Dipropylamine	3/II		2.65	12.5.2	A/12.7.3	N.	12.22.2
2480	Methyl isocyanate and solutions	3/I	6.1	6	6 mm	N.A.	12.9.3	12.22.3
	Isocyanate de méthyle et ses solutions							
2520	Cyclooctadienes	3/II		1.5	12.5.2	A/12.7.2	N.	12.22.2
	Cyclooctadiènes							
2528	Isobutyl isobutyrate	3/III		1.5	12.5.2	A/12.7.2	N.	12.22.2
	Isobutyrate d'isobutyle							
2541	Terpinolene	3/III		1.5	12.5.2	A/12.7.2	N.	12.22.2
	Terpinolène							

TABLE 17.7

LIST OF DANGEROUS GOODS IN CLASS 3 SHIPPED IN BULK

LISTE DES MATIÈRES DANGEREUSES DE LA CLASSE 3 – EXPÉDITIONS EN VRAC

UN NO No ONU	SUBSTANCE MATIÈRE	CL./ GRP.	ADD'L LBLG. ETIQ. SHIP.	MIN TEST PRESS (bar) PRESS.MIN. d'ÉPR.	MIN SHELL THICK. EPAISS. MIN.de PAROI (ref. para.)	BOTT. OPEN VIU. p.RAS. (ref. para.)	PRESS REL. RES.de PRESS. (ref. para.)	FILL. TAUX de REMPL. (ref. para.)
2838	Vinyl butyrate Butytate de vinyle	3/II		2.65	12.5.2	A/12.7.2	N.	12.22.2
2840	Butyraldoxime Butyraldoxyme	3/III		1.5	12.5.2	A/12.7.2	N.	12.22.2
2842	Nitroethane Nitroéthane	3/II		2.65	12.5.2	A/12.7.3	N.	12.22.2
2850	Propylene tetramer Tétrapropylène	3/III		1.5	12.5.2	A/12.7.2	N.	12.22.2
2867	Ink printer's, with a flashpoint of 32°C or above Encres d'imprimerie avec un point d'éclair égal ou supérieur à 32°C	3/III		1.5	12.5.2	A/12.7.2	N.	12.22.2
2868	Resin solution in inflammable liquid, with a flashpoint of 32°C or above Résine dans un liquide inflammable, solution de, avec un point d'éclair égal ou supérieur à 32°C	3/III		1.5	12.5.2	A/12.7.2	N.	12.22.2

TABLE 12.2

LIST OF DANGEROUS GOODS IN CLASS 3 SHIPPED IN BULK

LISTE DES MATIERES DANGEREUSES DE LA CLASSE 3 - EXPEDITIONS EN VRAC

UN NO No ONU	SUBSTANCE MATIERE	CL./ GRP.	ADD'L LBLS. ETIQ. SUPP.	MIN TEST PRESS (bar) PRESS.MIN. d'EPR.	MIN SHELL THICK. EPAISS. MIN.de PAROI (ref. para.)	BOTT. OPEN VID. p.RAS. (ref. para.)	PRESS REL. REG.de PRESS. (ref. para.)	REG. FILL. TAUX de REMPL. (ref. para.)
2304	Naphthalene, molten Naphtaline, fondue	4.1/III		2.65	12.5.2	A/12.7.3	12.11.1, 12.12.1	12.22.5
2448	Sulphur, molten Soufre, fondu	4.1/III		2.65	12.7.5	N.A.	12.11.1, 12.12.1	12.22.5

TABLE 12.2

LIST OF DANGEROUS GOODS IN CLASS 3 SHIPPED IN BULK

LISTE DES MATIERES DANGEREUSES DE LA CLASSE 3 - EXPEDITIONS EN VRAC

UN NO No ONU	SUBSTANCE MATIERE	CL./ GRP.	ADD'L LBLS. ETIQ. SUPP.	MIN TEST PRESS (bar) PRESS.MIN. d'EPR.	MIN SHELL THICK. EPAISS. MIN.de PAROI (ref. para.)	BOTT. OPEN VID. p.BAS. (ref. para.)	PRESS REL. REG.de PRESS. (ref. para.)	REG. FILL. TAUX de REMPL. (ref. para.)
1101	Diethyl aluminium chloride[2]	4.2/I		10	10 mm	N.A.	N.	12.22.3
	Chlorure de diéthyl-aluminium[2]							
1102	Aluminium triethyl[2]	4.2/I		10	10 mm	N.A.	N.	12.22.3
	Aluminium-triéthyle[2]							
1103	Aluminium trimethyl[2]	4.2/I		10	10 mm	N.A.	N.	12.22.3
	Aluminium-triméthyle[2]							
1295	Trichlorosilane	4.2/I	4.3 8	4	6 mm	N.A.	N.	12.22.5
1366	Diethylzinc[2]	4.2/I		10	10 mm	N.A.	N.	12.22.3
	Zinc-diéthyle[2]							
1367	Diethylmagnesium[2]	4.2/I		10	10 mm	N.A.	N.	12.22.3
	Magnésiumdiéthyle[2]							
1368	Dimethylmagnesium[2]	4.2/I		10	10 mm	N.A.	N.	12.22.3
	Magnésiumdiméthyle[2]							
1370	Dimethylzinc[2]	4.2/I		10	10 mm	N.A.	N.	12.22.3
	Zinc-diméthyle[2]							
1381	Phosphorus, white under water	4.2/I	6.1	4	6 mm	N.A.	N.	12.22.5
	Phosphore blanc, recouvert d'eau							

TABLE 12.2

LIST OF DANGEROUS GOODS IN CLASS 3 SHIPPED IN BULK

LISTE DES MATIERES DANGEREUSES DE LA CLASSE 3 - EXPEDITIONS EN VRAC

UN NO No ONU	SUBSTANCE MATIERE	CL./ GRP.	ADD'L LBLS. ETIQ. SUPP.	MIN TEST PRESS (bar) PRESS.MIN. d'EPR.	MIN SHELL THICK. EPAISS. MIN.de PAROI (ref. para.)	BOTT. OPEN VID. p.BAS. (ref. para.)	PRESS REL. REG.de PRESS. (ref. para.)	REG. FILL. TAUX de REMPL. (ref. para.)
1924	Ethyl aluminium dichloride[2] Dichlorure d'éthylaluminium[2]	4.2/I		10	10 mm	N.A.	N.	12.22.3
1925	Ethyl aluminium sesquichloride[2] Sesquichlorure d'éthylaluminium[2]	4.2/I		10	10 mm	N.A.	N.	12.22.3
1926	Methyl aluminium sesquibromide[2] Sesquibromure de méthylaluminium[2]	4.2/I		10	10 mm	N.A.	N.	12.22.3
1927	Methyl aluminium sesquichloride[2] Sesquichlorure de méthylaluminium[2]	4.2/I		10	10 mm	N.A.	N.	12.22.3
1930	Triisobutyl aluminium[2] Aluminium-triisobutyle[2]	4.2/I		10	10 mm	N.A.	N.	12.22.3
2447	Phosphorus, white molten[2] Phosphore blanc, fondu[2]	4.2/I	6.1	4	6 mm	N.A.	N.	12.22.5

TABLE 12.2

LIST OF DANGEROUS GOODS IN CLASS 3 SHIPPED IN BULK

LISTE DES MATIERES DANGEREUSES DE LA CLASSE 3 - EXPEDITIONS EN VRAC

UN NO No ONU	SUBSTANCE MATIERE	CL./ GRP.	ADD'L LBLS. ETIQ. SUPP.	MIN TEST PRESS (bar) PRESS.MIN. d'EPR.	MIN SHELL THICK. EPAISS. MIN.de PAROI (ref. para.)	BOTT. OPEN VID. p.BAS. (ref. para.)	PRESS REL. REG.de PRESS. (ref. para.)	DEG. FILL. TAUX de REMPL. (ref. para.)
1422	Potassium sodium alloys Potassium et sodium, alliages de	4.3/I		4	6 mm	N.A.	N.	12.22.5
1428	Sodium, metal Sodium métallique	4.3/II		4	6 mm	N.A.	N.	12.22.5
2257	Potassium, metal Potassium, métallique	4.3/II		4	6 mm	N.A.	N.	12.22.5

TABLE 12.2

LIST OF DANGEROUS GOODS IN CLASS 3 SHIPPED IN BULK

LISTE DES MATIERES DANGEREUSES DE LA CLASSE 3 - EXPEDITIONS EN VRAC

UN NO No ONU	SUBSTANCE MATIERE	CL./ GRP.	ADD'L LBLS. ETIQ. SUPP.	MIN TEST PRESS (bar) PRESS.MIN. d'EPR.	MIN SHELL THICK. EPAISS. MIN.de PAROI (ref. para.)	BOTT. OPEN VID. p.BAS. (ref. para.)	PRESS REL. REG.de PRESS. (ref. para.)	DEG. FILL. TAUX de REMPL. (ref. para.)
1445	Solutions of: Barium chlorate Solutions de: Chlorate de baryum	5.1/II	6.1	2.65	12.5.2	A/12.7.3	N.	12.22.2
1447	Solutions of: Barium perchlorate Solutions de: Perchlorate de baryum	5.1/II	6.1	2.65	12.5.2	A/12.7.3	N.	12.22.2
1455	Solutions of: Calcium perchlorate Solutions de: Perchlorate de calcium	5.1/II		2.65	12.5.2	A/12.7.3	N.	12.22.2
1459	Solutions of: Chlorate and magnesium chloride mixtures Solutions de: Chlorate et chlorure de magnésium en mélanges	5.1/II		2.65	12.5.2	A/12.7.3	N.	12.22.2
1462	Solutions of: Chlorites, inorganic, n.o.s. Solutions de: Chlorites inorganiques, n.s.a.	5.1/II		2.65	12.5.2	A/12.7.3	N.	12.22.2

TABLE 12.2

LIST OF DANGEROUS GOODS IN CLASS 3 SHIPPED IN BULK

LISTE DES MATIERES DANGEREUSES DE LA CLASSE 3 - EXPEDITIONS EN VRAC

UN NO No ONU	SUBSTANCE MATIERE	CL./ GRP.	ADD'L LBLS. ETIQ. SUPP.	MIN TEST PRESS (bar) PRESS.MIN. d'EPR.	MIN SHELL THICK. EPAISS. MIN.de PAROI (ref. para.)	BOTT. OPEN VID. p.BAS. (ref. para.)	PRESS REL. REG.de PRESS. (ref. para.)	REG. FILL. TAUX de REMPL. (ref. para.)
1470	Solutions of: Lead perchlorate Solutions de: Perchlorate de plomb	5.1/II	6.1	2.65	12.5.2	A/12.7.3	N.	12.22.2
1475	Solutions of: Magnesium perchlorate Solutions de: Perchlorate de magnésium	5.1/II		2.65	12.5.2	A/12.7.3	N.	12.22.2
1489	Solutions of: Potassium perchlorate Solutions de: Perchlorate de potassium	5.1/II		2.65	12.5.2	A/12.7.3	N.	12.22.2
1496	Solutions of Sodium chlorite Solutions de: Chorite de sodium	5.1/II		2.65	12.5.2	A/12.7.3	N.	12.22.2
1502	Solutions of: Sodium perchlorate Solutions de: Perchlorate de sodium	5.1/II		2.65	12.5.2	A/12.7.3	N.	12.22.2

TABLE 12.2

LIST OF DANGEROUS GOODS IN CLASS 3 SHIPPED IN BULK

LISTE DES MATIERES DANGEREUSES DE LA CLASSE 3 - EXPEDITIONS EN VRAC

UN NO No ONU	SUBSTANCE MATIERE	CL./ GRP.	ADD'L LBLS. ETIQ. SUPP.	MIN TEST PRESS (bar) PRESS.MIN. d'EPR.	MIN SHELL THICK. EPAISS. MIN.de PAROI (ref. para.)	BOTT. OPEN VID. p.RAS. (ref. para.)	PRESS REL. REG.de PRESS. (ref. para.)	DEG. FILL. TAUX de REMPL. (ref. para.)
1506	Solutions of Strontium chlorate Solutions de: Chlorate de strontium	5.1/II		2.65	12.5.2	A/12.7.3	N.	12.22.2
1508	Solutions of: Strontium perchlorate Solutions de: Perchlorate de strontium	5.1/II		2.65	12.5.2	A/12.7.3	N.	12.22.2
2014	Hydrogen peroxide, aqueous solutions containing at least 8 per cent and not more than 60 per cent hydrogen peroxide (stabilized as necessary) Bioxyde d'hydrogène, en solutions aqueuses (eau oxygénée) contenant au moins 8% et ~~mais~~ plus ~~de~~ 60% de bioxyde d'hydrogène (stabilisées selon les besoins)	5.1/II	8	4	12.5.2	A/12.7.3	12.9.2, 12.502	12.22.3

TABLE 12.2

LIST OF DANGEROUS GOODS IN CLASS 3 SHIPPED IN BULK

LISTE DES MATIERES DANGEREUSES DE LA CLASSE 3 - EXPEDITIONS EN VRAC

UN NO No ONU	SUBSTANCE MATIERE	CL./ GRP.	ADD'L LBLS. ETIQ. SUPP.	MIN TEST PRESS (bar) PRESS.MIN. d'EPR.	MIN SHELL THICK. EPAISS. MIN.de PAROI (ref. para.)	BOTT. OPEN VID. p.RAS. (ref. para.)	PRESS REL. REG.de PRESS. (ref. para.)	DEG. FILL. TAUX de REMPL. (ref. para.)
2015	Hydrogen peroxide and its aqueous solutions, stabilized containing more than 60 per cent hydrogen peroxide Bioxyde d'hydrogène et solutions de bioxyde d'hydrogène stabilisées contenant plus de 60% de bioxyde d'hydrogène	5.1/I	8	4	12.5.2	N.A.	12.9.2 12.502	12.22.3
2427	Potassium chlorate, solution Chlorate de potassium en solution	5.1/II		2.65	12.5.2	A/12.7.3	N.	12.22.2
2428	Sodium chlorate, solution Chlorate de sodium en solution	5.1/II		2.65	12.5.2	A/12.7.3	N.	12.22.2
2429	Calcium chlorate, solution Chlorate de calcium en solution	5.1/II		2.65	12.5.2	A/12.7.3	N.	12.22.2

ST/SG/AC.10/4/Add.4
page 65

TABLE 12.2

LIST OF DANGEROUS GOODS IN CLASS 3 SHIPPED IN BULK

LISTE DES MATIERES DANGEREUSES DE LA CLASSE 3 - EXPEDITIONS EN VRAC

UN NO No ONU	SUBSTANCE MATIERE	CL./ GRP.	ADD'L LBLS. ETIQ. SUPP.	MIN TEST PRESS (bar) PRESS.MIN. d'EPR.	MIN SHELL THICK. EPAISS. MIN.de PAROI (ref. para.)	BOTT. OPEN VID. p.BAS. (ref. para.)	PRESS REL. REG.de PRESS. (ref. para.)	DEG. FILL. TAUX de REMPL. (ref. para.)
2093	tert-Butyl hydroperoxide, maximum 72 per cent with water[5] Hydroperoxyde de butyle tertiaire à 72% au maximum avec de l'eau[5]	5.2/II		4	12.5.2	A/12.7.3	12.9.2, 12.502	80% @ 15°C
2102	Di-tert-butyl peroxide, technical pure Peroxyde de bis tertiobutyle, techniquement pur	5.2/II	3	4	12.5.2	N.A.	12.9.2, 12.502	80% @ 15°C
2116	Cumene hydroperoxide, technical pure Hydroperoxyde de cumène, techniquement pur	5.2/I		4	12.5.2	N.A.	12.9.2, 12.502	80% @ 15°C
2125	p-Menthane hydroperoxide, technical pure Hydroperoxyde de paramenthane, techniquement pur	5.2/I	I	4	12.5.2	N.A.	12.9.2, 12.502	80% @ 15°C

TABLE 12.2

LIST OF DANGEROUS GOODS IN CLASS 3 SHIPPED IN BULK

LISTE DES MATIERES DANGEREUSES DE LA CLASSE 3 - EXPEDITIONS EN VRAC

IN NO No ONU	SUBSTANCE MATIERE	CL./ GRP.	ADD'L LBLS. ETIQ. SUPP.	MIN TEST PRESS (bar) PRESS.MIN. d'EPR.	MIN SHELL THICK. EPAISS. MIN.de PAROI (ref. para.)	BOTT. OPEN VID. p.DAS. (ref. para.)	PRESS REL. REG.de PRESS. (ref. para.)	DEG. FILL. TAUX de REMPL. (ref. para.)
2162	Pinane hydroperoxide, technical pure Hydroperoxyde de pinane, techniquement pur	5.2/I	I	4	12.5.2	N.A.	12.9.2, 12.502	805 @ 15°C
2171	Diisopropylbenzene hydroperoxide, maximum concentration 72 per cent in solution Hydroperoxyde de diisopropylbenzène d'une concentration maximale de 72% en solution	5.2/I		4	12.5.2	N.A.	12.9.2, 12.502	805 @ 15°C

TABLE 12.2

LIST OF DANGEROUS GOODS IN CLASS 3 SHIPPED IN BULK

LISTE DES MATIERES DANGEREUSES DE LA CLASSE 3 - EXPEDITIONS EN VRAC

UN NO No ONU	SUBSTANCE MATIERE	CL./ GRP.	ADD'L LBLS. ETIQ. SUPP.	MIN TEST PRESS (bar) PRESS.MIN. d'EPR.	MIN SHELL THICK. EPAISS. MIN.de PAROI (ref. para.)	BOTT. OPEN VID. p.BAS. (ref. para.)	PRESS REL. REG.de PRESS. (ref. para.)	DEG. FILL. TAUX de REMPL. (ref. para.)
1135	Ethylene chlorohydrin Monochlorhydrine du glycol	6.1/II		4	12.5.2	N.A.	12.9.3	12.22.3
1181	Ethyl chloroacetate Chloracétate d'éthyle	6.1/II		4	12.5.2	A/12.7.3	N.	12.22.3
1259	Nickel carbonyl Nickel carbonyle	6.1/I	3	Not permitted for carriage in tank-containers Transport en conteneur-citerne non autorisé				
1541	Acetone cyanohydrin Cyanhydrine d'acétone	6.1/I		6	6 mm	N.A.	12.9.3	12.22.3
1545	Allyl isothiocyanate, inhibited Isothiocyanate d'allyle, stabilisé	6.1/II		4	12.5.2	A/12.7.3	12.9.3	12.22.3
1547	Aniline	6.1/II		2.65	12.5.2	A/12.7.3	N.	12.22.3
1553	Arsenic acid, liquid Acide arsénique, liquide	6.1/I		6	6 mm	N.A.	12.9.3	12.22.3
1560	Arsenic trichloride Trichlorure d'arsenic	6.1/I		6	6 mm	N.A.	12.9.3	12.22.3
1569	Bromoacetone Bromacétone	6.1/II		4	12.5.2	A/12.7.3	12.9.3	12.22.3

TABLE 12.2

LIST OF DANGEROUS GOODS IN CLASS 3 SHIPPED IN BULK

LISTE DES MATIERES DANGEREUSES DE LA CLASSE 3 - EXPEDITIONS EN VRAC

UN NO No ONU	SUBSTANCE MATIERE	CL./ GRP.	ADD'L LBLS. ETIQ. SUPP.	MIN TEST PRESS (bar) PRESS.MIN. d'EPR.	MIN SHELL THICK. EPAISS. MIN.de PAROI (ref. para.)	BOTT. OPEN VID. p.RAS. (ref. para.)	PRESS REL. REG.de PRESS. (ref. para.)	LEG. FILL. TAUX de REMPL. (ref. para.)
1578	Chloronitrobenzenes Chloronitrobenzènes	6.1/II		4	12.5.2	A/12.7.3	N.	12.22.3
1580	Chloropicrin Chloropicrine	6.1/I		6	6 mm	N.A.	12.9.3	12.22.3
1590	Dichloroanilines Dichloroanilines	6.1/II		4	12.5.2	A/12.7.3	N.	12.22.3
1591	o-Dichlorobenzene o-Dichlorobenzène	6.1/III		2.65	12.5.2	A/12.7.2	N.	12.22.2
1593	Dichloromethane Dichlorométhane	6.1/III		2.65	12.5.2	A/12.7.2	N.	12.22.2
1594	Diethyl sulphate Sulfate d'éthyle	6.1/II		4	12.5.2	A/12.7.3	N.	12.22.3
1595	Dimethyl sulphate Sulfate de méthyle	6.1/I		6	6 mm	N.A.	12.9.3	12.22.3
1596	Dinitroanilines Dinitranilines	6.1/II		4	12.5.2	A/12.7.3	N.	12.22.3
1597	Dinitrobenzenes Dinitrobenzènes	6.1/II		4	12.5.2	A/12.7.3	N.	12.22.3
1600	Dinitrotoluenes Dinitrotoluènes	6.1/II	3	4	12.5.2	A/12.7.3	N.	12.22.3

TABLE 12.2

LIST OF DANGEROUS GOODS IN CLASS 3 SHIPPED IN BULK

LISTE DES MATIERES DANGEREUSES DE LA CLASSE 3 - EXPEDITIONS EN VRAC

UN NO No ONU	SUBSTANCE MATIERE	CL./ CRF.	ADD'L LABLS. ETIQ. DIFF.	MIN TEST PRESS (bar) PRESS.MIN. d'ESSAI	MIN SHELL THICK. EPAISS. MIN.de PAROI (ref. para.)	BOTT. OPEN VID. p.BAS. (ref. para.)	PRESS REL. REG.de PRESS. (ref. para.)	DEG. FILL. TAUX de REMPL. (ref. para.)
1603	Ethyl bromoacetate Bromoacétate d'éthyle	6.1/II		4	12.5.2	A/12.7.3	12.9.1	12.22.3
1605	Ethylene dibromide Dibromure d'éthylène	6.1/II		4	12.5.2	A/12.7.3	N.	12.22.3
1613	Hydrocyanic acid, aqueous solutions containing not more than 20 per cent of that substance Acide cyanhydrique en solutions aqueuses ne contenant pas plus de 20% de cette matière	6.1/I		6	6 mm	N.A.	12.9.1	12.22.1
1649	Motor fuel antiknock mixtures Mélanges antidétonants pour carburants	6.1/I		10	6 mm	N.A.	12.9.1	12.22.1
1658	Nicotine sulphate in solution Sulfate de nicotine, en solution	6.1/II		4	12.5.2	A/12.7.3	N.	12.22.3

TABLE 12.2

LIST OF DANGEROUS GOODS IN CLASS 3 SHIPPED IN BULK

LISTE DES MATIERES DANGEREUSES DE LA CLASSE 3 - EXPEDITIONS EN VRAC

UN NO No ONU	SUBSTANCE MATIERE	CL./ GRP.	ADD'L LBLS. ETIQ. SUPP.	MIN TEST PRESS (bar) PRESS.MIN. d'EPR.	MIN SHELL THICK. EPAISS. MIN.de PAROI (ref. para.)	BOTT. OPEN VID. p.BAS. (ref. para.)	PRESS REL. REG.de PRESS. (ref. para.)	DEG. FILL. TAUX de REMPL. (ref. para.)
1661	Nitroanilines	6.1/II		4	12.5.2	A/12.7.3	N.	12.22.3
	Nitranilines							
1662	Nitrobenzene	6.1/II		4	12.5.2	A/12.7.3	N.	12.22.3
	Nitrobenzène							
1664	Nitrotoluenes	6.1/II		4	12.5.2	A/12.7.3	N.	12.22.3
	Nitrotoluènes							
1665	Nitroxylenes	6.1/II		4	12.5.2	A/12.7.3	N.	12.22.3
	Nitroxylènes							
1669	Pentachloroethane	6.1/II		4	12.5.2	A/12.7.3	N.	12.22.3
	Pentachloréthane							
1670	Perchloromethyl-mercaptan	6.1/I		6	6 mm	N.A.	12.9.3	12.22.3
	Mercaptan méthylique perchloré							
1671	Phenol, solid	6.1/II		4	12.5.2	A/12.7.3	N.	12.22.3
	Phénol, solide							
1672	Phenylcarbylamine chloride	6.1/I		6	6 mm	N.A.	12.9.3	12.22.3
	Chlorure de phénylcarbylamine							
1680	Potassium cyanide (solution)	6.1/I		6	6 mm	N.A.	12.9.3	12.22.3
	Cyanure de potassium							

TP/12/AC.11/A/ADD.4
page 11

TABLE 12.2

LIST OF DANGEROUS GOODS IN CLASS 3 SHIPPED IN BULK

LISTE DES MATIERES DANGEREUSES DE LA CLASSE 3 - EXPEDITIONS EN VRAC

UN NO No ONU	SUBSTANCE MATIERE	CL./ GRP.	ADD'L LBLS. ETIQ. SUPP.	MIN TEST PRESS (bar) PRESS.MIN. d'ESPR.	MIN SHELL THICK. EPAISS. MIN.de PAROI (ref. para.)	BUTT. OPEN VID. p.BAS. (ref. para.)	PRESS REL. REG.de PRESS. (ref. para.)	DEG. FILL. TAUX de REMPL. (ref. para.)
1689	Sodium cyanide (solution) Cyanure de sodium	6.1/I		6	6 mm	N.A.	12.9.3	12.22.3
1694	Bromobenzyl cyanide Cyanure de bromo-benzyle	6.1/I		6	6 mm	N.A.	12.9.3	12.22.3
1695	Chloroacetone, stabilized Chloracétone, stabilisée	6.1/II		4	12.5.2	A/12.7.3	12.9.3	12.22.3
1697	Chloroacetophenone Chloracétophénone	6.1/II		4	12.5.2	A/12.7.3	12.9.3	12.22.3
1701	Xylyl bromide Bromure de xylyle	6.1/II		4	12.5.2	A/12.7.3	N.	12.22.3
1702	Tetrachloroethane Tétrachloréthane	6.1/II		4	12.5.2	A/12.7.2	N.	12.22.3
1708	Toluidines	6.1/II		4	12.5.2	A/12.7.3	N.	12.22.3
1709	2,4-Tolylene-diamine 2,4-Tolylène-diamine	6.1/III		7.65	12.5.2	A/12.7.2	N.	12.22.2

TABLE 12.2

LIST OF DANGEROUS GOODS IN CLASS 3 SHIPPED IN BULK

LISTE DES MATIERES DANGEREUSES DE LA CLASSE 3 - EXPEDITIONS EN VRAC

UN NO No ONU	SUBSTANCE MATIERE	CL./ GRP.	ADD'L LBLS. ETIQ. SUPP.	MIN TEST PRESS (bar) PRESS.MIN. d'EPR.	MIN SHELL THICK. EPAISS. MIN.de PAROI (ref. para.)	BOTT. OPEN VID. p.BAS. (ref. para.)	PRESS REL. REG.de PRESS. (ref. para.)	REG. FILL. TAUX de REMPL. (ref. para.)
1711	Xylidines	6.1/II		4	12.5.2	A/12.7.3	N.	12.22.3
1738	Benzyl chloride	6.1/II	8	4	12.5.2	A/12.7.3	12.9.3	12.22.3
	Chlorure de benzyle							
1843	Ammonium dinitro-orthocresolate (aqueous solutions)	6.1/II		4	12.5.2	A/12.7.3	N.	12.22.3
	Dinitrocrésate d'ammonium (solutions aqueuses)							
1846	Carbon tetrachloride	6.1/II		4	12.5.2	A/12.7.3	N.	12.22.3
	Tétrachlorure de carbone							
1886	Benzylidene chloride	6.1/II		4	12.5.2	A/12.7.3	12.9.3	12.22.3
	Chlorure de benzylidène							
1887	Bromochloromethane	6.1/III		2.65	12.5.2	A/12.7.2	N.	12.22.2
	Bromochlorométhane							

TDG/SC/AC.1/1/4/Add.4
Page 73

TABLE 12.2

LIST OF DANGEROUS GOODS IN CLASS 3 SHIPPED IN BULK

LISTE DES MATIERES DANGEREUSES DE LA CLASSE 3 - EXPEDITIONS EN VRAC

UN NO No ONU	SUBSTANCE MATIERE	CL./ GRP.	ADD'L LABLS. ETIQ. SUPP.	MIN TEST PRESS (bar) PRESS.MIN. d'EPR.	MIN SHELL THICK. EPAISS. MIN.de PAROI (ref. para.)	BOTT. OPEN VID. p.BAS. (ref. para.)	PRESS REL. REG.de PRESS. (ref. para.)	DEG. FILL. TAUX de REMPL. (ref. para.)
1888	Chloroform Chloroforme	6.1/II		4	12.5.2	A/12.7.3	N.	12.22.3
1891	Ethyl bromide Bromure d'éthyle	6.1/II		4	12.5.2	A/12.7.3	12.9.3	12.22.3
1892	Ethyldichloroarsine Ethyldichloroarsine	6.1/I		6	6 mm	N.A.	12.9.3	12.22.3
1897	Tetrachloroethylene Tétrachloréthylène	6.1/III		2.65	12.5.2	A/12.7.2	N.	12.22.2
1916	Dichloroethyl ether Ether dichloro-2,2 éthylique	6.1/II		4	12.5.2	A/12.7.3	N.	12.22.3
1935	Cyanide solutions Cyanure, solutions de	6.1/I		6	6 mm	N.A.	12.9.3	12.22.3
1994	Iron pentacarbonyl Fer pentacarbonyle	6.1/I	3	Not permitted for carriage in tank-containers Transport en conteneur-citerne non autorisé				
2018	Chloroanilines, solid Chloranilines, solides	6.1/II		4	12.5.2	A/12.7.3	N.	12.22.3
2019	Chloroanilines, liquid Chloranilines, liquides	6.1/II		4	12.5.2	A/12.7.3	N.	12.22.3

TABLE 12.2

LIST OF DANGEROUS GOODS IN CLASS 3 SHIPPED IN BULK

LISTE DES MATIERES DANGEREUSES DE LA CLASSE 3 - EXPEDITIONS EN VRAC

UN NO No ONU	SUBSTANCE MATIERE	CL./ GRP.	ADD'L LBLS. ETIQ. SUPP.	MIN TEST PRESS (bar) PRESS.MIN. d'EPR.	MIN SHELL THICK. EPAISS. MIN.de PAROI (ref. para.)	BOTT. OPEN VID. p.BAS. (ref. para.)	PRESS REL. REG.de PRESS. (ref. para.)	DEG. FILL. TAUX de REMPL. (ref. para.)
2021	Chlorophenols, liquid	6.1/III		2.65	12.5.2	A/12.7.2	N.	12.20.3
	Chlorophénols, liquides					-		
2022	Cresylic acid	6.1/II		4	12.5.2	A/12.7.3	N.	12.22.3
	Acide crésylique							
2023	Epichlorohydrin	6.1/II		4	12.5.2	A/12.7.3	12.9.3	12.22.3
	Epichlorhydrine							
2038	Di trotoluenes	6.1/II 3		4	12.5.2	A/12.7.3	N.	12.22.3
	Dinitrotoluènes							
2075	Chloral, anhydrous, inhibited	6.1/II		4	12.5.2	A/12.7.3	N.	12.22.3
	Chloral, anhydre, stabilisé							
2076	Cresols	6.1/II		4	12.5.2	A/12.7.3	N.	12.22.3
	Crésols							
2077	Naphthylamine, (alpha)	6.1/III		2.65	12.5.2	A/12.7.2	N.	12.22.3
	Naphtylamine (alpha)							

TABLE 12.2

LIST OF DANGEROUS GOODS IN CLASS 3 SHIPPED IN BULK

LISTE DES MATIERES DANGEREUSES DE LA CLASSE 3 - EXPEDITIONS EN VRAC

UN NO No ONU	SUBSTANCE MATIERE	CL./ GRP.	ADD'L LBLS. ETIQ. SUPP.	MIN TEST PRESS (bar) PRESS.MIN. d'EPR.	MIN SHELL THICK. EPAISS. MIN.de PAROI (ref. para.)	BOTT. OPEN VID. p.BAS. (ref. para.)	PRESS REL. REG.de PRESS. (ref. para.)	DEG. FILL. TAUX de REMPL. (ref. para.)
2078	Toluene diisocyanate Di-isocyanate de toluène	6.1/II		4	12.5.2	A/12.7.3	N.	12.22.3
2228 2229	Butyl phenols Butylphénols	6.1/III		2.65	12.5.2	A/12.7.2	N.	12.22.2
2261	Xylenols Xylénols	6.1/II		2.65	12.5.2	A/12.7.2	N.	12.22.3
2290	Isophoronediisocyanate Diisocyanate d'isophorone	6.1/II		4	12.5.2	A/12.7.3	N	12.22.3
2312	Phenol, molten Phénol, fondu	6.1/II		4	12.5.2	A/12.7.3	N.	12.22.3
2321	Trichlorobenzenes Trichlorobenzènes	6.1/III		2.65	12.5.2	A/12.7.2	N.	12.22.2
2328	Trimethylhexamethylene diisocyanate Diisocyanate de triméthylhexaméthylène	6.1/III		2.65	12.5.2	A/12.7.2	N	12.22.3
2369	Ethylene glycol monobutyl ether Ether monobutylique de l'éthylène glycol	6.1/III		2.65	12.5.2	A/12.7.2	N.	12.22.2
2515	Bromoform Bromoforme	6.1/III		2.65	12.5.2	A/12.7.2	N.	12.22.2

TABLE 12.2

LIST OF DANGEROUS GOODS IN CLASS 3 SHIPPED IN BULK

LISTE DES MATIERES DANGEREUSES DE LA CLASSE 3 - EXPEDITIONS EN VRAC

UN NO No ONU	SUBSTANCE MATIERE	CL./ GRP.	ADD'L LBLS. ETIQ. SUPP.	MIN TEST PRESS (bar) PRESS.MIN. d'EPR.	MIN SHELL THICK. EPAISS. MIN.de PAROI (ref. para.)	BOTT. OPEN VID. p.RAS. (ref. para.)	PRESS REL. REG.de PRESS. (ref. para.)	LEG. FILL. TAUX de REMPL. (ref. para.)
2558	Epibromohydrin Epibromhydrine	6.1/I		6	6 mm	N.A.	12.9.3	12.22.3
2821	Phenol solutions Phénol, en solution	6.1/II		4	12.5.2	A/12.7.3	N.	12.22.3
2822	2-Chloropyridine Chloro-2 pyridine	6.1/II		4	12.5.2	A/12.7.3	N.	12.22.3
2831	1,1,1-Trichloroethane 1,1,1-Trichloréthane	6.1/III		2.65	12.5.2	A/12.7.2	N.	12.22.2
2839	Aldol	6.1/II		4	12.5.2	A/12.7.3	N.	12.22.3
2841	Di-n-amylamine Dipentanamine	6.1/III		2.65	12.5.2	A/12.7.2	N.	12.22.3
2849	3-Chloropropanol-1 Chloro-3-propanol-1	6.1/III		2.65	12.5.2	A/12.7.3	N.	12.22.3

TABLE 12.2

LIST OF DANGEROUS GOODS IN CLASS 3 SHIPPED IN BULK

LISTE DES MATIERES DANGEREUSES DE LA CLASSE 3 - EXPEDITIONS EN VRAC

UN NO No ONU	SUBSTANCE MATIERE	CL./ GRP.	ADD'L LBLS. ETIQ. SUPP.	MIN TEST PRESS (bar) PRESS.MIN. d'EPR.	MIN SHELL THICK. EPAISS. MIN.de PAROI (ref. para.)	BOTT. OPEN VID. p.BAS. (ref. para.)	PRESS REL. REG.de PRESS. (ref. para.)	LEG. FILL. TAUX de REMPL. (ref. para.)
1715	Acetic anhydride Anhydride acétique	8/II		4	12.5.2	A/12.7.3	N.	12.22.2
1716	Acetyl bromide Bromure d'acétyle	8/II		2.65	12.5.2	N.A.	12.9.3	12.22.3
1718	Butyl acid phosphate Phosphate acide de butyle	8/III		2.65	12.5.2	A/12.7.2	N.	12.22.2
1722	Allyl chloroformate Chloroformiate d'allyle	8/I		6	12.5.2	N.A.	12.9.3	12.22.3
1723	Allyl iodide Iodure d'allyle	8/I		6	12.5.2	N.A.	12.9.3	12.22.3
1724	Allyltrichlorosilane, stabilized Allyl-trichlorosilane, stabilisé	8/II		4	12.5.2	A/12.7.3	N.	12.22.2
1728	Amyltrichlorostlane	8/II		4	12.5.2	A/12.7.3	N.	12.22.2
1729	Anisoyl chloride Chlorure d'anisoyle	8/II		4	12.5.2	A/12.7.3	N.	12.22.3
1730	Antimony pentachloride, liquid Pentachlorure d'antimoine, liquide	8/II		4	12.5.2	A/12.7.3	N.	12.22.2

IMT/SC/AC.30/4/Add.4
page 78

TABLE 17.2

LIST OF DANGEROUS GOODS IN CLASS 3 SHIPPED IN BULK

LISTE DES MATIERES DANGEREUSES DE LA CLASSE 3 - EXPEDITIONS EN VRAC

UN NO No ONU	SUBSTANCE MATIERE	CL./ GRP.	ADD'L LBLS. ETIQ. SUPP.	MIN TEST PRESS (bar) PRESS.MIN. d'EPR.	MIN SHELL THICK. EPAISS. MIN.de PAROI (ref. para.)	BOTT. OPEN VID. p.BAS. (ref. para.)	PRESS REL. REG.de PRESS. (ref. para.)	DEG. FILL. TAUX de REMPL. (ref. para.)
1731	Antimony pentachloride, in solution Pentachlorure d'antimoine, en solution	8/II		4	12.5.2	A/12.7.3	N.	12.22.2
1732	Antimony pentafluoride Pentafluorure d'antimoine	8/II	6.1	4	12.5.2	N.A.	12.9.3	12.22.3
1736	Benzoyl chloride Chlorure de benzoyle	8/II		4	12.5.2	N.A.	N.	12.22.2
1737	Benzyl bromide Bromure de benzyle	8/II		4	12.5.2	A/12.7.3	N.	12.22.2
1739	Benzyl chloroformate Chloroformiate de benzyle	8/I		6	12.5.2	N.A.	12.9.3	12.22.3
1742	Boron trifluoride acetic acid complex Fluorure de bore et d'acide acétique, combinaison de	8/II		4	12.5.2	A/12.7.3	12.9.3	12.22.3

TABLE 12.2

LIST OF DANGEROUS GOODS IN CLASS 3 SHIPPED IN BULK

LISTE DES MATIERES DANGEREUSES DE LA CLASSE 3 - EXPEDITIONS EN VRAC

UN NO No ONU	SUBSTANCE MATIERE	CL./ GRP.	ADD'L LBLS. ETIQ. SUPP.	MIN TEST PRESS (bar) PRESS.MIN. d'EPR.	MIN SHELL THICK. EPAISS. MIN.de PAROI (ref. para.)	BOTT. OPEN VID. p.BAS. (ref. para.)	PRESS REL. REG.de PRESS. (ref. para.)	DEG. FILL. TAUX de REMPL. (ref. para.)
1744	Bromine and solutions of bromine Brome et solutions de brome	8/I	6.1	6	12 mm	N.A.	12.9.3	12.22.3
1747	Butyltrichlorosilane	8/II		4	12.5.2	A/12.7.3	12.9.3	12.22.3
1750	Chloroacetic acid, liquid Acide monochloracétique, liquide	8/II		4	12.5.2	A/12.7.3	N.	12.22.2
1752	Chloroacetyl chloride Chlorure de chloracétyle	8/II		4	12.5.2	N.A.	N.	12.22.2
1753	Chlorophenyl trichlorosilane Chlorophényl trichlorosilane	8/II		4	12.5.2	A/12.7.3	N.	12.22.2
1754	Chlorosulphonic acid (with or without sulphur trioxide) Acide chlorosulfonique (renfermant ou non de l'anhydride sulfurique)	8/I		6	12.5.2	N.A.	12.9.3	12.22.3

TABLE 12.2

LIST OF DANGEROUS GOODS IN CLASS 3 SHIPPED IN BULK

LISTE DES MATIERES DANGEREUSES DE LA CLASSE 3 - EXPEDITIONS EN VRAC

UN NO No ONU	SUBSTANCE MATIERE	CL./ GRP.	ADD'L LBLS. ETIQ. SUPP.	MIN TEST PRESS (bar) PRESS.MIN. d'EPR.	MIN SHELL THICK. EPAISS. MIN.de PAROI (ref. para.)	BOTT. OPEN VID. p.BAS. (ref. para.)	PRESS REL. REG.de PRESS. (ref. para.)	DEG. FILL. TAUX de REMPL. (ref. para.)
1755	Chromic acid, solution Acide chromique, solution de	8/II		4	12.5.2	A/12.7.2	N.	12.22.2
1757	Chromic fluoride, solution Fluorure chromique en solution	8/II		4	12.5.2	A/12.7.3	N.	12.22.2
1758	Chromium oxychloride Chlorure de chromyle	8/I		4	12.5.2	N.A.	12.9.3	12.22.3
1762	Cyclohexenyltrichlorosilane Cyclohexényltrichlorosilane	8/II		4	12.5.2	A/12.7.3	N.	12.22.2
1763	Cyclohexyltrichlorosilane	8/II		4	12.5.2	A/12.7.3	N.	12.22.2
1764	Dichloroacetic acid Acide dichloracétique	8/II		4	12.5.2	A/12.7.3	N.	12.22.2
1765	Dichloroacetyl chloride Chlorure de dichloracétyle	8/II		4	12.5.2	A/12.7.3	N.	12.22.2

TP/DG/AC.10/4/Add.4

TABLE 17.2

LIST OF DANGEROUS GOODS IN CLASS 3 SHIPPED IN BULK

LISTE DES MATIERES DANGEREUSES DE LA CLASSE 3 - EXPEDITIONS EN VRAC

UN NO. No ONU	SUBSTANCE MATIERE	CL./ GRP.	ADDTL. LBLS. ETIQ. SUPP.	MIN TEST PRESS (bar) PRESS.MIN. d'EPR.	MIN SHELL THICK. EPAISS. MIN.de PAROI (ref. para.)	BOTT. OPEN VID. p.BAS. (ref. para.)	PRESS REL. REG.de PRESS. (ref. para.)	LEG. FILL. TAUX de REMPL. (ref. para.)
1766	Dichlorophenyltrichlorosilane Dichlorophényltrichlorosilane	8/II		A	12.5.2	A/12.7.3	N.	12.22.2
1767	Diethyldichlorosilane Diéthyldichlorosilane	8/II	3	A	12.5.2	A/12.7.3	N.	12.22.2
1768	Difluorophosphoric acid, anhydrous Acide difluorophosphorique, anhydre	8/II		A	12.5.2	N.A.	N.	12.22.2
1769	Diphenyldichlorosilane Diphényldichlorosilane	8/II		A	12.5.2	A/12.7.3	N.	12.22.2
1771	Dodecyltrichlorosilane Dodécyltrichlorosilane	8/II		A	12.5.2	A/12.7.3	N.	12.22.2
1775	Fluoboric acid Acide fluoborique	8/II		A	12.5.2	N.A.	N.	12.22.2
1776	Fluorophosphoric acid, anhydrous Acide fluorophosphorique, anhydre	8/II		A	12.5.2	N.A.	N.	12.22.2

TABLE 17.2

LIST OF DANGEROUS GOODS IN CLASS 3 SHIPPED IN BULK

LISTE DES MATIERES DANGEREUSES DE LA CLASSE 3 - EXPEDITION EN VRAC

UN NO No ONU	SUBSTANCE MATIERE	CL./ SUP.	ADD'L LABS. ETIQ. SUPP.	MIN TEST PRESS (bar) PRESS.MIN. d'ESSAI	MIN SHELL THICK. EPAISS. MIN.de PAROI (ref. para.)	VENT. EVENT VID. p.RAS. (ref. para.)	PRESS REG. REG.de PRESS. (ref. para.)	EQ. FILL. TAUX de REMPL. (ref. para.)
1777	Fluorosulphonic acid Acide fluorosulfonique	8/1		4	12.5.1	N.A.	12.9.3	12.22.3
1778	Fluosilicic acid Acide fluosilicique	8/11		4	12.5.2	N.A.	N.	12.22.2
1779	Formic acid Acide formique	8/11		4	12.5.2	A/12.7.3	N.	12.22.2
1780	Fumaryl chloride Chlorure de fumaryle	8/11		4	12.5.2	A/12.7.3	N.	12.22.2
1781	Hexadecyltrichlorosilane Hexadécyltrichlorosilane	8/11		4	12.5.2	A/12.7.3	N.	12.22.2
1782	Hexafluorophosphoric acid Acide hexafluorophosphorique	8/11		4	12.5.2	A/12.7.3	N.	12.22.2
1783	Hexamethylene diamine solution Hexaméthylène diamine, solution de	8/11	6	4	12.5.2	N.A.	12.9.3	12.22.3

TABLE 12.2

LIST OF DANGEROUS GOODS IN CLASS 3 SHIPPED IN BULK

LISTE DES MATIERES DANGEREUSES DE LA CLASSE 3 - EXPEDITIONS EN VRAC

UN NO No ONU	SUBSTANCE MATIERE	CL./ GRP.	ADD'L LBLS. ETIQ. SUPP.	MIN TEST PRESS (bar) PRESS.MIN. d'EPR.	MIN SHELL THICK. EPAISS. MIN.de PAROI (ref. para.)	BOTT. OPEN VID. p.BAS. (ref. para.)	PRESS REL. REG.de PRESS. (ref. para.)	DEG. FILL. TAUX de REMPL. (ref. para.)
1784	Hexyltrichlorosilane	8/II		4	12.5.2	A/12.7.3	N.	12.22.2
1786	Acid mixtures, hydrofluoric and sulphuric Acide fluorhydrique et acide sulfurique en mélanges	8/I	6.1	6	6mm	N.A.	12.9.3	12.22.3
1787	Hydriodic acid Acide iodhydrique	8/II		4	12.5.2	A/12.7.3	N.	12.22.2
1788	Hydrobromic acid Acide bromhydrique	8/II		4	12.5.2	A/12.7.2	N.	12.22.2
1789	Hydrochloric acid in solution Acide chlorhydrique en solution	8/II		4	12.5.2	N.A.	N.	12.22.2
1790	Hydrofluoric acid solution Acide fluorhydrique en solution	8/I	6.1	6	12.5.2	N.A.	12.9.3	12.22.2
1791	Hypochlorite, solutions containing more than 5 per cent available chlorine Hypochlorite, solutions de, contenant plus de 5% de chlore actif	8/III		2.65	12.5.2	A/12.7.2	N.	12.22.2

TABLE 12.2

LIST OF DANGEROUS GOODS IN CLASS 3 SHIPPED IN BULK

LISTE DES MATIERES DANGEREUSES DE LA CLASSE 3 - EXPEDITIONS EN VRAC

UN NO No ONU	SUBSTANCE MATIERE	CL./ GRP.	ADD'L LBLS. ETIQ. SUPP.	MIN TEST PRESS (bar) PRESS.MIN. d'EPR.	MIN SHELL THICK. EPAISS. MIN.de PAROI (ref. para.)	BOTT. OPEN PID. p.RAS. (ref. para.)	PRESS REL. REG.de PRESS. (ref. para.)	REG. FILL. TAUX de REMPL. (ref. para.)
1792	Iodine monochloride Protochlorure d'iode	8/II		4	12.5.2	A/12.7.3	N.	12.22.3
1793	Isopropyl acid phosphate Phosphate acide d'isopropyle	8/III		2.65	12.5.2	A/12.7.2	N.	12.22.2
1796	Acid mixtures, nitrating acid Sulfonitriques, mélanges	8		6	4mm	N.A.	12.9.3	12.22.3
1799	Nonyltrichlorosilane	8/II		4	12.5.2	A/12.7.3	N.	12.22.2
1800	Octadecyltrichlorosilane Octadécyltrichlorosilane	8/II		4	12.5.2	A/12.7.3	N.	12.22.2
1801	Octyltrichlorosilane	8/II		4	12.5.2	A/12.7.3	N.	12.22.2
1802	Perchloric acid not exceeding 50 per cent. by weight, of acid Acide perchlorique en concentration ne dépassant pas 50% en poids, d'acide	8/II	5.1	4	12.5.2	N.A.	N.	12.22.2

TP 9855 E

TABLE 12.2

LIST OF DANGEROUS GOODS IN CLASS 3 SHIPPED IN BULK

LISTE DES MATIERES DANGEREUSES DE LA CLASSE 3 - EXPEDITIONS EN VRAC

UN NO No ONU	SUBSTANCE MATIERE	CL./ GRP.	ADD'L LBLS. ETIQ. SUPP.	MIN TEST PRESS (bar) FRESS.MIN. d'EPR.	MIN SHELL THICK. EPAISS. MIN.de PAROI (ref. para.)	BOTT. OPEN VID. p.BAS. (ref. para.)	PRESS REL. REG.de PRESS. (ref. para.)	DEG. FILL. TAUX de REMPL. (ref. para.)
1803	Phenolsulphonic acid, liquid Acide phénolsulfonique, liquide	8/II		4	12.5.2	A/12.7.3	N.	12.22.2
1804	Phenyltrichlorosilane Phényltrichlorosilane	8/II		4	12.5.2	A/12.7.3	N.	12.22.2
1805	Phosphoric acid Acide phosphorique	8/III		2.65	12.5.2	A/12.7.2	N.	12.22.2
1808	Phosphorus tribromide Tribromure de phosphore	8/II		4	12.5.2	A/12.7.3	N.	12.22.2
1809	Phosphorus trichloride Trichlorure de phosphore	8/II		4	12.5.2	A/12.7.3	12.24.3	12.22.2
1810	Phosphorus oxychloride Oxychlorure de phosphore	8/II		4	12.5.2	A/12.7.3	N.	12.22.2

TP/DG/AC.10/4/Add.4
page 86

TABLE 17.2

LIST OF SAVOIRS USED IN CLASS 3 (APPEL IN FOR)

LISTE DES MATIÈRES RENFERMÉES DE LA CLASSE 3 - (APPEL IN FOR)

UN NO No ONU	SUBSTANCE MATIÈRE	CL./ SOUS-CL.	AUXIL. LABELS. ETIQ. SUPP.	MIN TEST PRESS (bar) PRESS.MIN. d'ESSAI.	MIN SHELL THICK. EPAISS. MIN.de PAROI (ref. para.)	ADIT. OPEN VID. p.RAS. (ref. para.)	PRESS PCL. REG.de PRESS. (ref. para.)	EQ. FILL. TAUX de REMPL. (ref. para.)
1811	Potassium bifluoride, solution Bifluorure de potassium, solution de	8/II	6.1	4	12.5.2	A/12.7.3	N.	12.22.2
1814	Potassium hydroxide solution Hydroxyde de potassium, solution de	8/II		4	12.5.2	A/12.7.3	N.	12.22.2
1816	Propyltrichlorosilane	8/II		4	12.5.2	A/12.7.3	N.	12.22.2
1817	Pyrosulphuryl chloride Chlorure de pyrosulfuryle	8/II		4	12.5.2	N.A.	N.	12.22.2
1818	Silicon tetrachloride[2] Tétrachlorure de silicium[2]	8/II		4	12.5.2	N.A.	12.9.3	12.22.3
1819	Sodium aluminate, solution Aluminate de sodium en solution	8/II		4	12.5.2	A/12.7.3	N.	12.22.2

TDG/SC/AC.1/4/Add.4
page 87

TABLE 12.2

LIST OF DANGEROUS CODES IN CLASS 3 SHIPPED IN BULK

LISTE DES MATIERES DANGEREUSES DE LA CLASSE 3 - EXPEDITIONS EN VRAC

UN NO No ONU	SUBSTANCE MATIERE	CL./ GRP.	ADD'L LBLS. ETIQ. SUPP.	MIN TEST PRESS (bar) PRESS.MIN. d'EPR.	MIN SHELL THICK. EPAISS. MIN.de PAROI (ref. para.)	BOTT. OPEN VID. p.BAS. (ref. para.)	PRESS REL. REG.de PRESS. (ref. para.)	CER. FILL. TAUX de REMPL. (ref. para.)
1824	Sodium hydroxide solution Hydroxyde de sodium, solution de	8/II		4	12.5.2	A/12.7.2	N.	12.22.2
1827	Stannic chloride, anhydrous Chlorure stannique, anhydre	8/II		4	12.5.2	A/12.7.3	N.	12.22.2
1828	Sulphur chloride Chlorure de soufre	8/I		4	12.5.2	N.A.	N.	12.22.2
1829	Sulphur trioxide, inhibited Anhydride sulfurique, stabilisé	8/I		6	12.5.2	N.A.	12.9.3	12.22.3
1830	Sulphuric acid Acide sulfurique	8/II		4	12.5.2	N.A.	N.	12.22.3
1831	Sulphuric acid, fuming Acide sulfurique, fumant	8/I	6.1	6	6 mm	N.A.	12.9.3	12.22.3

TABLE 12.2

LIST OF UNDERWOOD GOODS IN CLASS 3 SHIPPED IN BULK

LISTE DES MATIERES DANGEREUSES DE LA CLASSE 3 EXPEDIEES EN VRAC

UN NO No ONU	SUBSTANCE MATIERE	CL./ DIV.	ADD'L LABLS. ETIQ. SUPP.	MIN TEST PRESS (bar) PRESS.MIN. d'EPR.	MIN SHELL THICK. EPAISS. MIN.de PAROI (ref. para.)	BOTT. OPEN VID. c.RAS. (ref. para.)	PRESS REL. REG.de PRESS. (ref. para.)	VEG. FILL. TAUX de REMPL. (ref. para.)
1832	Sulphuric acid, spent Acide sulfurique, résiduaire	8/II		4	12.5.2	N.A.	12.9.3	12.22.3
1833	Sulphurous acid Acide sulfureux	8/II		4	12.5.2	A/12.7.3	N.	12.22.2
1834	Sulphuryl chloride Chlorure de sulfuryle	8/I		6	12.5.2	N.A.	12.9.3	12.22.3
1835	Tetramethylammonium hydroxide, solution Hydroxyde de tétraméthylammonium	8/II		4	12.5.2	A/12.7.3	N.	12.22.2
1836	Thionyl chloride Chlorure de thionyle	8/I		6	12.5.2	N.A.	12.9.3	12.22.3
1837	Thiophosphoryl chloride Chlorure de thiophosphoryle	8/II		4	12.5.2	N.A.	12.9.3	12.22.2
1838	Titanium tetrachloride Tétrachlorure de titane	8/II		4	12.5.2	N.A.	12.9.3	12.22.3

TABLE 12.2

LIST OF DANGEROUS GOODS IN CLASS 3 SHIPPED IN BULK

LISTE DES MATIERES DANGEREUSES DE LA CLASSE 3 - EXPEDITIONS EN VRAC

UN NO No ONU	SUBSTANCE MATIERE	CL./ GRP.	ADD'L LBLS. ETIQ. SUPP.	MIN TEST PRESS (bar) PRESS.MIN. d'EPR.	MIN SHELL THICK. EPAISS. MIN.de PAROI (ref. para.)	BOTT. OPEN VID. p.RAS. (ref. para.)	PRESS REL. REG.de PRESS. (ref. para.)	REG. FILL. TAUX de REMPL. (ref. para.)
1840	Zinc chloride, solution Chlorure de zinc en solution	8/III		2.65	12.5.2	A/12.7.2	N.	12.22.2
1848	Propionic acid Acide propionique	8/III		2.65	12.5.2	A/12.7.2	N.	12.22.2
1902	Diisooctyl acid phosphate Phosphate acide diisooctylique	8/III		2.65	12.5.2	A/12.7.2	N.	12.22.2
1908	Sodium chlorite, solution containing more than 5 per cent available chlorine Chlorite de sodium, en solution, contenant plus de 5% de chlore actif	8/II		4	12.5.2	A/12.7.3	N.	12.22.2
1909	Sodium hydrogen sulphite in solution Bisulfite de sodium en solution	8/II		4	12.5.2	A/12.7.3	N.	12.22.2
1938	Bromoacetic acid (solution) Acide bromacétique (solution)	8/II		4	12.5.2	A/12.7.3	N.	12.22.3

TABLE 12.2

LIST OF DANGEROUS GOODS IN CLASS 3 SHIPPED IN BULK

LISTE DES MATIERES DANGEREUSES DE LA CLASSE 3 - EXPEDITIONS EN VRAC

UN NO No ONU	SUBSTANCE MATIERE	CL./ GRP.	ADD'L LBLS. ETIQ. SUPP.	MIN TEST PRESS (bar) PRESS.MIN. d'EPR.	MIN SHELL THICK. EPAISS. MIN.de PAROI (ref. para.)	BOTT. OPEN VID. p.BAS. (ref. para.)	PRESS REL. REG.de PRESS. (ref. para.)	DEG. FILL. TAUX de REMPL. (ref. para.)
1940	Thioglycolic acid Acide thioglycolique	8/II		4	12.5.2	A/12.7.3	N.	12.22.2
2030	Hydrazine hydrate and aqueous solutions of hydrazine containing not more than 64 per cent by weight of hydrazine Hydrate d'hydrazine et solutions aqueuses d'hydrazine ne contenant pas plus de 64% en poids d'hydrazine	8/II	6.1	4	12.5.2	A/12.7.3	12.9.3	12.22.2
2031	Nitric acid, other than red fuming nitric acid Acide nitrique, à l'exception de l'acide nitrique fumant rouge	8/68		6	12.5.2	N.A.	N.	12.22.3
2032	Nitric acid, red fuming Acide nitrique fumant rouge	8/I	5.1 6.1	6	6mm	N.A.	12.9.3	12.22.3
2218	Acrylic acid, inhibited Acide acrylique, stabilisé	8/II		4	12.5.2	A/12.7.3	N.	12.22.2

TABLE 12.2

LIST OF DANGEROUS GOODS IN CLASS 3 SHIPPED IN BULK

LISTE DES MATIÈRES DANGEREUSES DE LA CLASSE 3 - EXPÉDITIONS EN VRAC

UN NO No ONU	SUBSTANCE MATIÈRE	CL./ GRP.	ADD'L LBLS. ETIQ. SUPP.	MIN TEST PRESS (bar) PRESS.MIN. d'ÉPR.	MIN SHELL THICK. ÉPAISS. MIN.de PAROI (ref. para.)	BOTT. OPEN VID. p.BAS. (ref. para.)	PRESS REL. REG.de PRESS. (ref. para.)	LEG. FILL. TAUX de REMPL. (ref. para.)
2226	Benzotrichloride Chlorure de benzylidine	8/II		4	12.5.2	A/12.7.3	N.	12.22.2
2289	Isophorone-diamine	8/III		2.65	12.5.2	A/12.7.2	N.	12.22.2
2326	Trimethylcyclohexylamine Triméthylcyclohexylamine	8/III		2.65	12.5.2	A/12.7.2	N	12.22.2
2327	Trimethylhexamethylenediamines Triméthylhexaméthylènediamines	8/III		2.65	12.5.2	A/12.7.2	N.	12.22.2
2564	Trichloroacetic acid, solution Acide trichloracétique en solution	8/II		4	12.5.2	A/12.7.3	N.	12.22.2
2586	Alkyl, aryl and toluene sulphonic acids, liquid, containing more than 5 per cent of free sulphuric acid Acides alkyl, aryl et toluène sulfoniques, liquides, renfermant plus de 5% d'acide sulfurique non combiné	8/II		4	12.5.2	A/12.7.3	N.	12.22.2

TABLE 12.2

LIST OF DANGEROUS GOODS IN CLASS 3 SHIPPED IN BULK

LISTE DES MATIERES DANGEREUSES DE LA CLASSE 3 – EXPEDITIONS EN VRAC

UN NO No ONU	SUBSTANCE MATIERE	CL./ GRP.	ADD'L LBLS. ETIQ. SUPP.	MIN TEST PRESS (bar) PRESS.MIN. d'ESSAI	MIN SHELL THICK. EPAISS. MIN.de PAROI (ref. para.)	BUTT. OPEN VID. à BAS. (ref. para.)	PRESS REL. REG.de PRESS. (ref. para.)	LIQ. FILL. TAUX de REMPL. (ref. para.)
2586	Alkyl, aryl and toluene sulphonic acids, liquid containing not more than 5 per cent of free sulphuric acid Acides alkyl, aryl et toluène sulfoniques, liquides, ne renfermant pas plus de 5% d'acide sulfurique non combiné	8/III		2.65	12.5.2	A/12.7.2	N.	12.22.2
2789	Acetic acid, glacial or over 80 per cent solution by weight Acide acétique glacial et à plus de 80% en solution en poids	8/II		4	12.5.2	A/12.7.3	N.	12.22.3
2796	Battery fluid, acid (Electrolyte) Electrolyte pour accumulateurs, acide	8/II		4	12.5.2	A/12.7.3	N.	12.22.3
2797	Battery fluid, alkali (Electrolyte) Electrolyte pour accumulateurs, alcalin	8/II		4	12.5.2	A/12.7.3	N.	12.22.3
2798	Phenyl phosphorus dichloride Dichloro-phénylphosphine	8/II		4	12.5.2	A/12.7.3	N.	12.22.3

TP 2/6/AV.1/A/ADD.4
Page 62

TABLE 12.2

LIST OF DANGEROUS GOODS IN CLASS 3 SHIPPED IN BULK

LISTE DES MATIERES DANGEREUSES DE LA CLASSE 3 - EXPEDITIONS EN VRAC

UN NO No ONU	SUBSTANCE MATIERE	CL./ GRP.	ADD'L LABLS. ETIQ. SUPP.	MIN TEST PRESS (bar) PRESS.MIN. d'EPR.	MIN SHELL THICK. EPAISS. MIN.de PAROI (ref. para.)	BOTT. OPEN VID. p.BAS. (ref. para.)	PRESS REL. REG.de PRESS. (ref. para.)	LEG. FILL. TAUX de REMPL. (ref. para.)
2815	N-Aminoethylpiperazine Aminoéthylpipérazine, normale	B/III		2.65	12.5.2	A/12.7.2	N.	12.22.3
2817	Ammonium hydrogen fluoride solution Fluorure acide d'ammonium, en solution	B/II	6.1	4	12.5.2	A/12.7.3	N.	12.22.3
2818	Ammonium polysulphide solution Polysulfure d'ammonium, en solution	B/II	6.1	4	12.5.2	A/12.7.3	N.	12.22.3
2819	Amyl acid phosphate Phosphate acide d'amyle	B/III		2.65	12.5.2	A/12.7.2	N.	12.22.3
2820	Butyric acid Acide butyrique	B/III		2.65	12.5.2	A/12.7.2	N.	12.22.3
2825	Diisopropylethanol-amine Di-isopropyléthanol-amine	B/III		2.65	12.5.2	A/12.7.2	N.	12.22.3
2837	Sodium hydrogen sulphate solution Sulfate acide de sodium	B/II		4	12.5.2	A/12.7.2	N.	12.22.3

TABLE 17.2

LIST OF DANGEROUS GOODS IN CLASS 3 SHIPPED IN BULK

LISTE DES MATIERES DANGEREUSES DE LA CLASSE 3 – EXPEDITIONS EN VRAC

UN NO No ONU	SUBSTANCE MATIERE	CL./ GRP.	ADD'L CARLS. ETIQ. SURF.	MIN TEST PRESS (bar) PRESS.MIN. D'EPR.	MIN SHELL THICK. EPAISS. MIN.de PAROI (ref. para.)	BOTT. OPEN VID. p.RAS. (ref. para.)	PRESS REL. RES.de PRESS. (ref. para.)	LEG. FILL. TAUX de REMPL. (ref. para.)
1941	Dibromodifluorométhane Dibromodifluorométhane	9/III	-4	12.5.2	A/12.7.2	N.		12.22.2